

1968

1900-228

CRPT

BoT

Plawman

002

De Wolfe, Gordon.      Specimens of Ficus \*=FAA material

1916

1928

2087\*

2119

2120\*

2226

2267

2268

2287\*

2293

2356

2361

2366

2905\*

2921\*



Remita 2:

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V - Duplicate left at COL.



# Collections from South America SEPTEMBER 1968 -

## Venezuela

Cerro. Jardín Botánico.

19 SEPT 1968

1900. Stapelia cbviconona Asclepiadaceae  
ECON Succulent ground herb.  
Corolla very large. Green striped  
with maroon on inside. Pale  
outside. det. T. Proctor
1901. Cestrum nocturnum L. Solanaceae  
ECON Shrub 2.5 m. tall. fls. tubular  
cream-color, light brown lobes.  
Fruit (immature) green.
1902. Brunfelsia bonariensis (Vell.) Macbride Solanaceae  
ECON called Brunfelsia hortensia by  
Dr. T. Lesser. Reported as brought by  
him from Brazil.  
Shrub 1.5 m. In bud. Corolla  
violet-blue. In full sun.  
Auds on upper branches.

americana L.1903. Brunfelsiacalyx lobes recurved  
margin of limb entireShrub 1 m. tall. Leaves very  
smooth, subcoriaceous (old leaves).Flowers few. Corolla cream  
yellow, terminal on branches.Other plants very similar but  
with ~~smaller~~ leaves. See photos.These in fruit. Green when im-  
mature. Strong odor of gardenia.1904. Brunfelsia nitida Benth.Voucher for  
Chromosome  
Counts  
n=11Much branched shrub about  
1.5 m tall. Very bushy.Corolla tube white. All the  
flowers dehiscing beneath the  
calyx. No fruit. Buds on old  
upper branches. Strong odor  
of gardenia. Much branched at base.  
New ~~leaves~~ reddish brown.  
bark

20 SEPTEMBER 1968.

1905. Brunfelsia americana L.Cultivated in Caracas in  
garden of Colegio1.5 m tall. Corolla yellow.  
Strong odor of gardenia.

VGN



21 SEPTEMBER 1968.

PARQUE NACIONAL DE GUATOPO.  
ALT. ~ 4000 m.

1906. Solanum

GH Large herb, suffrutescent growing  
along road. Flowers creamy white.  
Fruit hirsute, green.

VEN

1907. Solanum

GH Treelet 2 m. tall. Flowers  
white. Fruit green.

1908. Clusia

GH Tree 10 m. growing along  
road. Petals white fleshy.

Estado Guerrero. Pego Real.

Along road leading to Cementerio.  
21 SEPT 1968.

1909. Solzmann  
GH Treelet 3 m. growing along  
dirt road. Flowers white.  
Fruits green. In full sun.  
VEN see 1907.

1910. Cordia <sup>umbellifera Killip ex</sup> (K, US) Agostini Boragin.  
GH Tree reaching 10-15 m.  
forming large part of woods,  
and young trees → undergrowth.  
Fresh flowers white but turning  
brown with age, persisting.  
In shade. det. J. S. Miller 1986  
VEN

1911. Brumfelsia <sup>uniflora (Pohl) D. Don.</sup>  
ELON Stems to 1 m. sprouting  
from cut trunk 3 cm in  
diameter. Growing along  
dirt road to Cementerio in  
full sun. Several seedlings  
occurring nearby.

Con Aristeguieta  
Estacion Biologica Edo. Guarico  
8 km. from Celizbozo.  
12 SEPTEMBER 1960.

1912. Erythroxylon K  
MO  
VEN  
GH  
Shrub 2 m. Sterile. Growing  
in wooded area in llanos.  
At edge of woods.

---

45 km from Celizbozo on road  
past Estacion Biologica  
12 SEPT place called "Hato Jecerra"

1913. Solanum <sup>cf.</sup> mammosum L.  
V.n. "Mantana del Dizbo" ECOW  
Small shrub growing near  
oasis in llano. Fruits green  
with dark veins becoming  
orange when ripe. No flowers.  
Grazed area.

Seed grown in Harvard Greenhouse  
~~12/2/60~~

23 SEPT 1968, Caracas

1914. Brunfelsia *americana* L.

Shrub 1.5 m. in Jardin Botánico.

Flowers creamy white yellowing with age. Leaves firm somewhat rough. Fruit rotund, green immature. Flower on small side branches. Margin of limb undulate. Calyx lobes erect.

VEN

25 SEPTEMBER 1968. Estado Bolívar  
Miércoles

1915. Solanum K, us C. 500 m. elev.

Gr Treelet to 3 m. Growing along road. 10 km east of El Palmer on way to Estacion Forestal. 2<sup>o</sup> growth.

Corolla violet, immature fruits green. Stamens yellow. Common. Leaf lighter beneath. In sun.

VEN

1916. Ficus K

Young tree 2.5 m. tall along road to Estacion Forestal. 20 km from El Palmer. Latex milky white, leaves lt. green shiny above, very pale below. VEN

1917 Erythroxylon

MD  
GH Growing along Rio Cabeza Mala  
near road to Miamo 15 km NE of  
Guasipati. Tree in Bosque reaching  
6 m or more, 10 cm in girth.  
Very common.

TYPE

Field Museum of Natural History

*Brunfelsia imatacana* Plowman

Ferdiana Bot., n.s., 8:5. 1981.

Det. T. Plowman

1918.

ECN  
Vn. "Jemin del Monte" "Juan de la Calle"  
Locality: About 20 km. NE. of Guasipati along  
side road (just before Rio Cabeza Mala) on road to  
K. El Miamo.

US  
F In bosque in deep shade; soil:  
white sandy. Alt. 200 m.

GH  
Y Treelet or large shrub 4-5 m  
tall. Leaves dull dark green above  
light beneath. Flowers borne singly (or 2)  
at ends of branchlets. Violet turning  
pure white with age. Odor of jasmine.  
Fruit immature but said to be about  
2 cm in diameter when ripe.

USE: Said by campesinos to be used  
by brujas for "baños". Not  
cultivated.

WOOD: MAD

1910.

lobes of limb opening:



Calyx enlarging + becomes stiffer in fruit. Calyx pale green at first membranous, later coriaceous.

26 SEPT 1968. ESTADO BULHVAR - Juves  
Reserva Forestal de Imataca.

Northeast of Upata: 16 km north  
from Upata to Los Rosos, then 23 km  
east along logging road to Campamento  
Paraíso. 18 mi NE of Upata.

C. 500 m. elev. Serranía de Imataca.

Imatacana Plowman

1919. *Brumfelsia pauciflora* var. *calycina*

ECON  
VEN  
ATT "Jazmin del monte". K, U, S, F.

Shrub to 3 m. in height along road  
at bend, 23 km from Los Rosos. Small  
population - about 6 small clumps of  
1-3 individuals. Area cut over in road  
building and quite open, sunny  
compared to adjacent dense dark

forest.

Nearly finished flowering but a few buds still present. Flowers borne singly or doubly at ends of branchlets. Corolla violet fading lighter with age. Calyx pale green, membranous.

Young leaves dark purple above when first produced becoming dark green. Membranaceous slightly revolute at the margin.

1920. Cassia K, US, S  
GH Shrubs 2 m tall growing along  
roadside at cut over place. In Sun.  
Flowers yellow.

1921. Aphelandra pulcherrima Acah  
US (Jacq.) HBK.

Shrubby herb 1.5 m growing along  
lumbering road, 23 km. from Los Rosos.  
Fairly common. Corolla bright red.

In Sun. Leaves bright green.  
Det. DC Wasshausen Sept 1972

1922 Philodendron pedatum (Hook.) Kunth Araceae  
GH Vn. "cérima"

Epiphytic climbing herb growing  
in deep forest 23 km from Los Rosos.  
Clear latex in stem smelling strongly of  
fresh carrots, turning reddish brown when  
cut open. About 2 m. long. In deep shade.

US



35 km NE of Upatá.

About 30 km from Las Rosas.

MO  
GH 1923. Erythroxylum impressum O.E. Schulz Erythrox.  
Vn. "escobo negro"

Small tree 3m. along path in forest.  
Leaves subcoriaceous. Sterile. Sheds.  
det. T. Plowman 1980.

MO  
GH 1924. Erythroxylum impressum O.E. Schulz Erythrox.  
Vn. "escobo negro"

Small tree about 2-3 m. growing on  
rock outcrop - very dry. Leaves coriaceous.  
No flowers. Differences from #1923  
may be due to habitat. Full sun.  
det. T. Plowman 1980.

MO  
GH 1925. Tillandsia bulbosa Hook. Bromeliaceae  
Vn. "pina de mono"

Epiphytic  
Herb about 20 cm tall, growing on  
Erythroxylum and other shrubs on rocky  
outcrop. Perianth lavender-purple.  
Style + filaments purple. Anthers  
yellow. Leaves and bracts green to  
purple to red.

20 SEPTEMBER 1968.

Rio Caroni at ferry crossing:  
c. 100m.

1926. Psidium ~~guineense~~ guineense Sw.

Shrub 1.5 m tall growing on river bank. Leaves light green, somewhat shiny above, dull + paler beneath. Petals white, evanescent. Filaments white, anthers brown (somewhat past). Sandy/loamy soil.  
VEN, K, US, GH. det Kew 1975

1927. Solanum K, US, S, F, P

GH Shrub to 2 m. growing on beach (sandy loam) of Rio Caroni. Restricted to this habitat. Corolla white, anthers yellow. Fruit green when young turning red at maturity.  
VEN

1928. Ficus K, US

Tree 10 m tall growing next to Gas Station. Latex milky white. No fruit. Between Ciudad Bolívar and El Tigre at Km. 37. Estado Bolívar.  
VEN

30 SEPTEMBER CARACAS

PARQUE DEL ESTE

1929. Brumfelsia bonadora (Vell.) Macbride  
"mantaca"

ECO  
VEN  
K

Shrub to Treelet up to 4m tall.  
Growing near Restaurant in Park  
next to Bird Island. Cultivated.  
Brought from Rio de Janeiro, garden  
of Senhora Stoddart. Profuse flowers  
and fruits and buds all stages.  
Corolla violet to white very showy.

A-JP-2

MICH

4 OCTOBER 1968

Estado Aragua, Parque Nacional Henry  
Pittier. Rancho Grande

1930. Acnistus K

Herb 1.5m high along road opposite  
gate to Periquito trail just above  
Rancho Grande. 1300 m. Petals  
yellowish, reflexed (in 4's). Anthers  
cream.

VEN G/H

1931. Solanum K, US

Trail from Rancho Grande to Toma.  
Erect Herb 1.5 m. Petals cream greenish  
toward base. Stamens yellowish  
green. Petals spreads. Fruits ovoid  
long 1.9 x 1.8 cm.

VEN GH

hyporhodium A. Br. & Bouche  
1932. Solanum K, US, S, F det. M. Whalen 1982.

GH About 3 km from Rancho Grande on  
road to Ocuire de la Costa. Arborescent  
herb along roadside, 3 m. tall. Leaves  
very large, fragile, veins pale.  
Hairs purple on exposed surfaces  
green on unexposed. Gyno pale  
greenish white. Petals white, Stamens  
creamy yellow. Fruit spheroid 4.5 x  
4 cm. Hairs on fruit brown, color  
burnt orange.

VEN

✓ = specimen duplicate in Bogota

13 October 1968 Colombia

1933. Passiflora

ECR (granadilla) "Gulupa"

Dept. Cundinamarca. Road from Bogotá to Girardot near Pandi.

Vine growing along road. Leaves shiny above paler and dull beneath. 3 Bracts light green.

5 Sepals pale green with maroon spotting.

5 Petals smaller than sepals also light green with maroon spots. "Staminodes" in two tiers the lower shorter and pointing downward.

Upper tier very showy ascending and undulate at the tips, maroon + white banded becoming blue violet at the tips.

Gynophore and Filaments <sup>+ styles</sup> light green with spots. Anthers pale. Pollen bright yellow.

IBAGUÉ

✓ K, US

1934. Tillandsia recurvata (L.) L. Bromeliaceae

GH Epiphyte growing on trees and wires throughout City of Ibagué.

1935. Croton K, US, S, F

GH Shrub 3-4 m. near Parque Centenario  
along path. Juice clear yellow turn-  
ing milky yellow upon oxidation.  
Strongly smelling of Aji-  
Filaments and anthers white - leaves  
pale underneath.

1936. Solanum <sup>→ rudeponum Dunal</sup> K, US, S, F det. M. Nee 1986.

Shrub 3 m. tall along trail near  
Parque Centenario. Petals erect, white.  
Anthers yellow. Fruit green, surface  
roughish. Leaves with golden brown  
hairs when young.  
GH

17 OCTOBRE 1968.  
POPAYAN.

- ✓ 1937. *Brumfesia australis* Benth. de Quito Ecuador  
Econ. N. U. "Jafmin" de Malabar" Asia. Oman Sea.  
A-JP Shrub 3 m. tall. in garden of Museo  
Valencia in Popayan. Rather straggly, leaves  
small, waxy, coriaceous, acute, narrowed at  
base. Shiny on both surfaces, paler beneath.  
Midrib protruding beneath. Trunk of shrub  
11 cm, branching 15 cm above ground to  
trunks 6 cm in diameter. Said to be  
20 years old. Flowers profusely in June.  
Flowers deep violet to white depending  
on age. Sweet smelling of jafmin(?) Throat  
of corolla tube white to pale yellow.  
Limb of corolla 4-6 cm across; tube of  
corolla 1.9-2.3 cm, Calyx 1.2-1.5 cm.  
Teeth of calyx acute 0.3-0.5 cm. Pedicel  
nonapparent or very short or fused with  
calyx-receptacle tissue. Bilobed stigma  
opens slightly for pollination. Filaments  
violet turning white. Pollen pale yellow.  
Stigmatic tissue above pollen sacs. Fruit  
subglobose 1.2 cm in diameter.  
✓ Mild indication of alkaloids in juice of  
the fruit.

1957. cont.

Fruit drying brown. Outer part (exocarp, mesocarp) decaying to leaves papery inner shell of capsule.

Paño 20 October 1968 c. 2600 m.

San Fernando, Puerito 5 km from Paño.  
Along hedgerows and fields near town.

1938. Palicourea K, US, S.F. Rubiaceae  
GH Shrubs 2 m tall along road. Leaves dark green dull above, light green beneath. Calyx green, Corolla tubular 12 mm long, dark purple with green at the tips of the corolla lobes. Fruit green about 8 mm in length laterally appressed spheroid. Corolla pale blue inside the lobes reflexing at anthesis. Slightly zygomorphic at maturity.



l K, US, S, F, P  
1939 Geissanthus

Myrsinaceae

GH Shrub (scrambling) about 2 m tall  
growing along fence row. Corolla  
white, reflexed. Stamens creamy to  
flesh colored. Leaves dull, paler beneath.  
Leaf texture leathery-rubbery.  
det. J. Pipoly 1986.

1 Brugmansia sanguinea (Ruiz + Pavon) D. Don  
1940. Datura sanguinea R. & P. US  
~~GH~~ Vin. "huamuc" "poroporo" ECW, GH, NPA, K  
Small tree to 4 m. common along  
fields and roads. Corolla tube yellowish  
green at the base, bright red towards  
the lobes, about 20 cm. long. Calyx green  
opening into 2 lobes. Fruit a berry  
torbinate, or somewhat elongate. 5-7  
cm in diameter, 8-10 cm long. Flowers  
pendant.

1941. Cestrum moritzii Donal. Simarubaceae  
Shrub about 2-3m. Fruits green  
almost black at the apex.  
GH, K, US, S

1942. Tibouchina mollis (Bonpl.) Cogn. Malvaceae  
Shrub 3m along stream. Pedicels  
and calyx red, hairy. Petals magenta-  
violet, anthers yellow, filament &  
pistil magenta-pink.  
det. J.J. Wurdack 1972

1943. Gouania fuliginosa HBK. Boraginaceae  
Shrub 2m tall rather straggly. Corolla  
creamy white, strongly scented. Fruit  
green, turning white at maturity.

1944. Polypodium murorum L. Polypodiaceae  
det. M.T. Murillo 1968.  
Fern about 20 cm growing on rotted  
stump, along road.

1945. Piper K, US, S  
GIT

Shrub 1.5 m tall sprouting from thicker trunk

1946. Teloschistes chrysophthalmus Lichenes.  
~~Flora~~ Det. I. M. Lamb. Mar. 1942.

Growing on trunks of Euphorbiaceae?  
. Thallus grey-green. Apothecia bright orange.

1947.

Euphorbiaceae

~~Flora~~ Vn. "Pino"

Shrub to small tree, to 4 m. growing along roadside. Abundant milky juice.  
No flowers. Stems fleshy.

Paflo.

October 22, 1968. LAS GILERAS, paramos  
near Volcano, at Television Station.  
4000 meters.

1948. Elaphoglossum K Polypodiaceae  
Small fern growing in protected  
places among cushion plants and  
mosses. Leaves thick, rubbery.

1949. Elaphoglossum Yatesii (Det. Christ) Polypodiaceae  
Fern growing among cushion  
plants in fairly exposed places  
mostly on hill sides. Leaves thick,  
rubbery. det. DSB

1950. Elaphoglossum Yatesii (Det. Christ) Polypodiaceae  
Smaller and similar to the  
preceding number. Perhaps  
same species. Among mosses  
and cushion plants. Leaves involute  
toward midrib.  
det. DSB.

✓ (Grammitis) Polypodium moniliforme Lagasca  
1951. ~~Polypodium~~ det DSB. Polypodiaceae  
Tiny fern growing among mosses  
on vertical rock slopes, mostly protected  
from winds by overhanging vegetation.  
(Some with hairs profuse among sori.)  
Growing near summit.

✓ 1952. ~~Isometrum~~ Cinnamomum Kuntze Polypodiaceae  
Herb up to about 2 ft. growing  
among mosses and cushion plants  
on perenns. Found at <sup>slightly</sup> lower elevations,  
not at top where winds and cold  
are most extreme. Common among  
Espeletias further down.  
det H. H. Neville 11/2/69

✓ 1953. ~~Isometrum~~ Isoetes triquetra A.Br.  
det DSB.  
Aquatic herb growing completely submerged  
in pool, spring fed, near summit of Galeras.  
Very rusted red deposits in water indicating  
presence of iron. Leaves with air chambers.

(A) → Jim Hickey — Miami Univ. Oxford Ohio  
23 Aug 85

1954. K, US, S

Compositae

GH Cushion plant, common on high páramo. Rays white. Tube petals cream, stigmas maroon, anthers yellow-orange. Very common.

1955. K, US  
GH

Compositae

Cushion plant, common on high páramo. All ray florets - yellow petals, stigma, stamens. Abundant milky juice.

1956. Azorella aretioides (HBK) DC.  
GH K, US, S  
det Kew 1975.

Umbelliferae

Cushion plant. Fairly common on páramo. Petals 5, white, deciduous. 5 stamens, anthers yellow. Styles 2.

✓  
1957. Geranium K, US  
GH

Geraniaceae

Cushion plant. Petals pink-violet.

✓  
1958. Gentiana K, US

Gentianaceae

Small herb growing among Cushion plants and mosses. Not a Cushion plant itself. Calyx greenish purple. Petals blue-~~purple~~ violet with darker violet veins. Stamens of 2 sizes: Some flowers have very short, other flowers with long filaments. Filaments blue-purple. Anthers tan. Ovary violet raised on a gynophore.

A

✓  
1959. Ourisia K, US

Scrophulariaceae

GH Prostrate herb creeping on mud banks and among mosses and Cushion plants. Corolla bright red. Filaments and style cream; anthers cream.

1960. Nertera depressa K. Rubiaceae  
GH Creeping herb, woody at the  
base. ~~Cordilla lobes~~ purple outside, white  
inside. Anthers bluish.

1961. Pernettya Ericaceae  
GH Creeping prostrate shrub,  
woody at base. Cordilla tube red.  
Anthers red, filaments white.  
Style red. Berry white.

1962. Ranunculus guzmanii K, US Ranunculaceae  
GH, S, F  
Herb to about 0.3 m. tall. Growing  
on highest paramo peaks, often in pro-  
tected place. Sepals 5, reddish outside,  
yellow inside, showy. Petals smaller,  
enclosed by sepals, tubular at the  
base, yellow. Stamens many, yellow.  
Pistils many, yellow. Fruit a green  
achene.



1963. Halimolobos K, US Gentianaceae  
 Tall herb growing in wet places  
 to 0.5 m. Calyx light green. Corolla  
 yellow green; filaments yellow  
 green, anthers tan, inserted  
 alternate with and on corolla tube.  
 Ovary yellow green. Fruit a cap-  
 sule. Petals in fls, all persisting in  
 fruit. Leaves forming rosette at  
 the base. Long tap root.  
 A

1964. Umbelliferae  
 GH Herb about 10 cm tall growing  
 among cushion plants in paramos.  
 Petals dull orange color, anthers  
 white, ovary almost black. long tap  
 root.

1965. Luzula gigantea Desv. Juncaceae  
 K, US, S det Kew  
 GH

Herb about 10 cm tall growing very  
 high in paramos on heavily barren  
 hillsides on trail to volcano mouth.

1966. Alchemilla

Herb growing among cushion plants on perennials.  
GT

1967. Senecio K, U.S.S.

Compositae

GH Herb with creeping root stalks growing along trail to Crater, in less barren places at summit. All tube florets. Lobes of corolla yellow. Stigma yellow. To about 4 m. tall. Common. Leaves stiff.

1968. Castilleja K

Scrophular.

GH

Herb common among cushion plants. Leaves imbricated at the margins. Corolla white to pink. Very common.

✓  
1969. Espeletia K, US, S  
vn. "FRAY JELÓN"

Compositae

GH Woody plant reaching 4 m. high. Found  
lower down in páramo in grassy meadows.  
Forming extensive populations.  
Rays yellow. Disk yellow.

✓  
1970. Ribes K, US  
GH

Grossulariaceae

Shrub reaching 1 meter growing in  
meadow with Espeletias among grasses.  
Corolla tube red, stamens and pink  
creamy white.

✓  
1971. Senecio stembeli Hier.  
GH

K, S, F

Compositae

det. Cuatrecasas

Shrub reaching 1 m. growing in lower  
sector of páramo (but found higher up as  
well.) Corolla, stamens, pistil yellow. Pappus  
white.

1972. Bomarea  
GH

Amaryllidaceae


Herb about 30 cm tall growing among grasses and Espeletias in lower part of Paramo. Rare. Leaves invlolved at the margins.

3 Outer tepals red on outside, yellowish inside. 3 Inner tepals yellow with a medial red stripe outside and brown spots inside, slightly clawed at base. 6 Stamens with yellow filaments and purple anthers. Pistil yellow.

1 K  
1973. Sisyrinchium  
GH

Iridaceae

Herb to 0.5 m. tall growing among grasses in meadow in lower Paramo. Flowers yellow. Capsule shiny black.



1974. <sup>K, US, S</sup>  
Loricaria thujoides

Compositae.

det. Cuatrecasas

Shrub to about 1.0 m. Growing in lower Paramo and occasionally higher up. Branches greatly compressed in one plane. Cap. Lvs creamy white.

1975. Blechnum laxense (HBK) Hieron. Polypodiaceae  
det. DS B.

Fern with strong rootstock growing among Espeletia and grasses.

1976. Agrostis foliata Hook. f.  
US, Gt, K

Gramineae

Herb about 20 cm. tall growing on slopes of volcano crater. First vascular plant to colonize. Spikelets reddish.  
det. T. Soderstrom

1977.

Discomycetes

Cup fungus about 15 mm across. Hymenium bright red, edge darker. Light brown underneath. Growing on piece of rotten wood in páramo on ground among grasses. Wet place.

1978.

Discomycetes

Cup fungus growing on soil on gravelly road in open sun. Disc irregularly shaped, bright orange, lighter underneath.

1979

Agaricaceae

Gill fungus growing among cushion plants on high páramo ~ 4000 m. Cap brown, stem buff colored. On rotted organic matter.

CINC, K, US  
1980. Cryptochila grandiflora Bryophyta  
MICH, MO, S (L. + G.) (Tolle) Hepaticae

Growing at base of volcanic ruin in  
gravelly mud. Very wet area.

det. Margaret Fulford  
1972

1981. Andreæa barbuloidea Broth. ex Herz. Lichenes  
det. H. Crum 1972

Growing on soil and among mosses  
on slopes of volcano at Los Gatos S.  
Apothecia: reddish orange hymenium.

1982. Pilopogon gracilis (Hook.) Brid. Musci  
MICH, MO det. H. Crum 1972

Moss growing in wet places sheltered  
from exposure on slopes of volcano.

1983. Pilopogon gracilis (Hook.) Brid. Musci  
MICH, MO det. H. Crum 1972

Moss growing in wet places under  
overhangs + in depressions on volcano slopes.

1984. Pitopogon gracilis (Hook.) Brid. Hepatic  
Growing in moist places sheltered  
from wind on volcanic slopes.  
MICH, MO det H. Crum 1972

1985. Rhacomitrium crispulum Purci  
MICH, MO (Hook. f. + Wils.) Hook. f. + Wils.  
Moss growing on rocks and soil  
at bottom of run around volcano.  
det. H. Crum 1972

6 NOVIEMBRE 1968 - PASTO  
GRANJA BOTANA - C. 2600 m.

Stream environs on hillside behind  
Granja Buildings.

1986. Calceolaria colombiana Pennell <sup>K</sup> Scrophulariaceae <sup>P.</sup>  
→ tripartita R. + P.

Herb 0.5 m tall growing in pastured  
field. Corolla yellow, unmarked.  
Stamens two. Leaves with sticky  
glandular hairs.  
det. Molau 1982.



✓  
1997. Colceolaria chelidonioides HBK. K, US, S  
Herb in marshy area, creeping,  
reaching 0.3 m in height. Corolla  
yellow, unmarked. Non glandular  
hairs.

✓  
1998. Cleome cf. anomala HBK. K, US, S Cypripediaceae  
GH  
Small tree to 7 m. along Quebrada.  
Sepals 4, maroon, Petals 4 greenish  
yellow with maroon. Filaments yellow  
at the base, maroon distally with  
maroon anthers. Ovary on long gyno-  
phore greenish maroon. Petals  
apparently forced open by stamens.

✓  
1999. ~~Carex hypnifolia~~ K, US ~~Rosaceae~~  
Glt C. ruscifolia L. ssp. microphylla (Poir.) L. Skog  
Woody climber or shrub to 2 m  
along stream. Calyx dark red,  
disc present yellow-green. Stamens  
greenish yellow with dark red. Styles  
greenish, stigmas red.

✓  
1990. Bomarea  
GH-2

Ameryllidaceae

Climbing herb 2 m high. Sepals red-orange outside, yellow-orange inside. Petals yellow-orange with red spots. Filaments yellow.

Fruits reddish black, seeds bright red-orange.

✓  
1991. Passiflora cumbalensis

Vine climbing along stream in underbrush, semi-woody.

Bracts green. Hypanthium tube green. Sepals red inside, green outside. Petals red. Filaments pink, anthers yellow. Style pink, stigmas light green. Leaves unknown. Ovary light green.


✓  
1992. Passiflora mollissima (HBK.) Bailey  
var. "coruba"

Woody vine growing on fence along road near Granja. Bracts dark green. Hypanthium tube

green beneath, reddish distally.  
 Sepals maroon. outside, pink in-  
 side. Petals pink. Filaments cream,  
 anthers yellow. Ovary pale yellow.  
 Stigmas pale green. Styles pale  
 pink.  
 Fruit elliptic, green. yellow  
 inside ~~when~~ when ripe.

✓ Dendrophthora clavata (Benth.) O. Kuntze  
 1993. Phoradendron K det. J. Kuijt 1984. Loranthaceae  
 GT, US

Parasite growing on small shrub  
 (Solanaceae?) on hillside. Very  
 young growth green, later bright  
 yellow. Fleshy. Berry white.

✓ 1994. K, US  
  
 Lobeloid  
 Gentianeae  
 large herb to 4m growing on hill  
 side. Milky juices. Corolla creamy white  
 pink at the base.

1995. Eryngium  
GtH

Eriogonaceae

Small herb growing in wet place in meadow. Inflorescence greenish white.

~~1995~~ 1996. Eleocharis  
GtH

Cyperaceae

Herb growing in wet place in pasture on hillside. Very common.

1997. Cyperus cf. niger  
GtH

Cyperaceae

Herb growing in wet place on hillside. Occasional.

1998. Marchantia polymorpha L.  
CINC

Hepaticae

Liverwort growing in marshy meadow.

11 NOVEMBER 1968. Sibundoy.  
Elev. 2250 m.

1999. ~~Capraea~~  
Ru. xandamánana  
USO: Purgante para water possums  
y limpiar el estómago.  
Shrub 2 m. growing along road-  
side east of Sibundoy.

2000 Methysticodendron <sup>borrachera</sup>  
? Ru. "Culebra borrachera" mezucuar (Kamsa)  
USO: against rheumatismo e.  
baños calientes.  
Small tree 2.5 m de altura.  
5 kilómetros Suroeste de Sibundoy.

*Tochroma gesnerioides* (HBK.) Miess  
det. G. Sobel & M. Nees  
1985.

- ★ Chemical Analysis  
1001. *Tochroma umbrosa* (Nob.) Miess *Scrophulariaceae*  
iv. "totujansüshe" **GH, EON: K, US**  
Venenosa. Arbol de 5 metros. F.  
(limb recurved) Calyx red. Corolla red, slightly  
zygomorphic. Stamens cream.  
leaves dull green. Fruit turn-  
ing reddish at maturity.  
Found commonly in houseyards and  
near dwellings.

- ★ Chemical Analysis  
1002. *Cestrum humboldtii* Franchey var. *lenuiflora* Franchey  
vii. ~~"sho angushe"~~ "sho ang' sha"  
Venenosa. **GH** <sup>INDA</sup>, K, US (pallid)  
Tree 5 m tall. Flowers greenish  
~~purple~~. Fruit nearly black-en-  
closed by the calyx.

1003. *Solanum* K  
vii. "shan zanshö"  
**GH** <sup>US</sup> Tree 6 meters tall, trunk 20  
cm diameter. Leaves shiny dark  
green above, Dull hairy beneath.  
Petals white. Anthers yellow

united around pistil.

2004 <sup>K</sup> Cinnam ~~cf glauca~~ <sup>me</sup> (Cinnaceae)  
vn. "achirilla" buatun ~~zhache~~  
ECON Herb 3 m tall growing in  
AJP gardens. Flowers orange.  
Anther cream color.

2005. Cestrum ochraceum Fraenck  
vn. "si jang ~~zh~~ hā".  
INPA Arbol de 7 metros, trunk 20 cm.  
ECON Flowers cream color. Fruit  
K black subspheroid to 1 cm.  
US Leaves stiff smooth, darker  
above.

USO: para resfriados de la cabeza  
las hojas calentadas aplicadas  
a la cabeza en plaster.

★ *Cestrum ochraceum* Francey ↑ juice  
1906 *Cestrum ochraceum* Francey  
var. *Sijangushe* var. *macrophyllum*  
Francey.

ECON, GHT  
Tree 5 m tall in garden of Pedro  
Juzibioy. Strong narcotic odor.  
Corolla tube cream to purplish  
brown. Fruit black 8 mm in diameter.  
In town of Sibundoy.

---

13 NOVIEMBRE 1960. Moca. <sup>500-</sup>600m.  
Camino Viejo San Antonio. Pedro  
Juzibioy

1907 *Browallia americana* L.  
var. to 2 m. FAA

Herb. to 0.5 m. Growing among  
Yuca and café in farm yard of  
Hilario Quinchoza. Calyx 9 mm long,  
corolla tube 18 mm long, limb 4 1/2  
mm. Corolla blue-violet, yellow  
at the throat (unilateral).

INPA, ECON, ~~AA~~, K, US, S

(A) → K



2008. Brunfelsia grandiflora subsp. Schultzei  
ECON var. chirac Caspi. (Cult.)  
A-IP Shrub 1.5 m tall in garden of  
Hilario Quinchoa 1 km from Mocoa.  
Calyx 10 mm long, teeth 2 mm.  
Pedicel 3.5 mm. Corolla tube  
2.5 cm long, limb 3.5 cm across.  
Throat white, corolla violet  
(with touch of yellow),  
pale, turning white with age.  
Stamens 5 mm from mouth of  
tube. Petals slightly reflexed,  
undulate at the margin.

Leaves lustrous green above, pale  
and dull beneath. Very smooth  
rubbery. Growing in shade.

Fruit globose 12 mm in diameter,  
green.

2009 *Brumfelsia grandiflora* subsp. *Schultesii*  
ECOR 5 m. "Chiricazpi" (PAA - fruit.)  
Shrub 1 m tall along roadside  
in full sun. Calyx 10 mm.  
Corolla tube 20 mm, limb 32 mm  
across. Pale violet. Fruit 10 mm  
subglobose. Growing in full sun.  
Flowers smaller, petals slightly re-  
flexed.  
end of roll.

2010. *Brumfelsia grandiflora* D Don sp. *Schultesii*  
ECOR 5 m. "Chiricazpi." (EAA - Cytology)  
Shrub to 3 m growing as a  
hedge along road. Calyx 10 mm.  
Corolla tube 2.5 mm, limb 4.2  
cm across - Fruit globose 1.2 cm  
across, Green, turning brown on  
drying at maturity.  
beginning of roll  
leaves soft smooth rubbery.

✓  
2011. Bassora (witheringia) solanacea Solanaceae  
GH

Shrub or suffrutescent herb 1.5 m tall along roadside. Petals 4, reddish brown, to yellowish <sup>(5 mm)</sup>. Fruit a berry turning from green to red at maturity 7 mm across, sub globose, 5 mm long. Anthers cream.

✱  
2012. Solanum Solanaceae  
EOW. rn. "Kujauillo"

Herb. 1.5 m tall along roadside. Petals <sup>pale</sup> violet reflexed at anthesis 7 mm long. Anthers yellow.

✓  
2013. Cordia bifurcata Roem. & Schult.  
GH, K, US, F det. J.S. Miller 1986.

Shrub 1.5 m along roadside. Corolla creamy white. Fruit bright red at maturity.

✓  
2014.

Nerispermaceae

GH, K, US

Vine growing in thicket along road-side. Flowers minute, greenish yellow.

✓  
2015. Faullinia?  
K, S

Sapindaceae

GH, US

Woody straggling shrub to 2 m tall growing in secondary growth along road. Petals white 2 mm long. Sepals green, persistent. Fruit bright red, with white aril and black seed.

✓  
2016. Nectandra reticulata (R. & P.) Mez  
Saufatia K  
det. W. Barger 1986. Lauraeae

GH, US, S, F

Tree 8 meters. Trunk 30 cm in diameter. Sepals 3, white. Petals 6 white. Stamens in 2 whorls, outer 6, inner 3, large fleshy filament-connective with tiny yellow anthers. Inferior ovary.

6  
2017. Solanum pectinatum Dunal ex DC. det Whalen 1981.  
~~hirsutissimum Steudl.~~ K, US  
ECOV S  
GH Herb 1 m tall along roadside.  
Covered with bristles. Corolla  
white persistent. Petals white.  
Anthers yellow. Fruit green  
very bristly, hairs dislodging on  
contact.

14 NOVEMBRE

Salveje = abeja

2018. Brunfelsia grandiflora subsp. Schultesii  
ECOV Vn. Salveje chiri azpi (linga)  
A-JP Shrub 1.5 m tall growing in garden  
of Santiago Mutumbajoy, East of Moros  
4 Kilometros. Fruits sub rotund 1.2-1.4 cm  
in diameter, 1.6 cm long. Green turning  
brown at maturity. In full sun.  
Leaves soft, rubbery. Dark green  
shiny above, pallid beneath. Not as  
good as 2019.

2019. *Brunfelsia grandiflora* ssp. *Schultzei* <sup>DiCuro = nat. lat. - - - - -</sup>

ECOV. M. Picoru Chiric Caspi. (ingoa)

A-JP Small shrub 1 m. tall in yard  
Kd. Juntiaza Mubumbajoy 4 mi east  
of Mocoa. In full sun.

Uso: un palito de 30 m. Se usa  
la corteza, la agua fria 2 horas.  
Contra fiebres. Cuando se toma  
se borrecha para 8 horas.  
Hace frio en todo el cuerpo. 3  
palitos para borrecharge como  
yagé.

Calyx 1 cm, teeth 2 mm. Pedicel  
to 8 mm. Corolla tube 2.7 cm  
long, limb 3.7 cm. Violet (pale)  
to white at maturity. White disc  
at the mouth, slightly yellow. Margin  
of corolla lobes undulate. Odor of  
Jasmine. Fruit 1.6 cm long, 1.2 wide

Leaves smooth, (yellowing) green.  
Shiny above, dull & paler beneath.  
~~Leaf~~ Covered with stinging ants &  
aphids.

Odor of Jasmine.

14 NOV 68

COL K. U.S.S.F

2020. *Erythroxylum novogranatense* (Morris) Hieron.

ECO vn. "Coca"

Det. J. Plowman

Tree 4.5 m tall in garden of Santiago Mutumbayay. 4 mi east of Moco. Flowers white. Fruits bright red at maturity, oval to elongate 7-8 mm diameter, 8-15 mm long.

2021. *Banisteriopsis caapi* (Spruce ex Griseb.)

ECO vn. yagé

Morton

Liana. 10 m. high. Growing in cultivation.

Uso: Cocinado en dia con chagropanga en una olla grande con agua.

2022. *Anthurium* cf. *hahnii* Engl. det Kew 1975

GH vn. "Chopopanga" (Inga)

KUS Herb, 1.5-2.0 m tall growing along trail in forest 4 km east of Moco. Very common. Terrestrial. Spathe light green, Spadix light yellow when young, turning green. Leaves 1 m. long,  $\frac{2}{3}$  m wide.

# MOCOA

in Shade and Sun.


Along Rio Mocoa 4 km from Mocoa.

2023. Philodendron uleanum Engl.

GH, ~~HERB~~, K, F, COL

det. S. Mayo 1979.

HERB to about 1 m. Growing on tree trunks in 2° forest along trail. Abundant clear sep turning red on cutting (tissues). Petiole streaked with dark green spots. Leaves shiny dark green above, light green below.

Spathe <sup>th.</sup> green with streaky spots.  In forest (shade).

Photos ~~OK~~

2024. Philodendron barrosoanum Bunting

GH, ~~HERB~~, F

det. T. Croat 1982.

Herb climbing on old tree trunks to 2 m tall along stream in forest. Spathe green with pink coloring. Male flowers in spadix turning red brown on cutting.



МОСОА

2025. K Ardisia guianensis (Aubl.) Mez Myrsinaceae  
Det. J. Pipoly 1985. ~~Sapotaceae~~

GA, US, S, F, P

Woody Shrub 2 m tall growing at edge of woods along road. Petals 4 pink to cream, stamens: yellow anthers, white filaments. Petals reflexed. Fruit 2 drupe at first red turning black at maturity.

gracile (Ridge) Lindl. det. M. Madison  
1977

2026. Anthurium scolopendrinum (Ham.) Kunth Araceae  
no photo GT4, ~~GT4~~, KF det Kew 1975

Herb 5 cm growing on tree trunk along road in full sun. Sp: the 2nd spadix reddish brown. Berries bright red, 8 mm long, 8 mm wide, 5 mm thick. Leaves erect, smooth.

ANTHURIUM HARLINGIANUM CROAT

DET. T. CROAT 1988

2027-Anthurium GH F two #s. photo → K.  
var. "caeruleum" S. G. Engelm.

Herb to 1 m. Epiphyte in forest.  
Spathe ~~plach~~ purple above, green with  
purple stripes beneath. Spikes light  
brown to reddish. Leaves smooth,

# Rio Mocoza

2021

firm, stiff.

Mature spadix Red. Mature fruits  
red. Spathe green, spiraling, pendant.

~~Anthurium~~

~~2027A. *Tournefortia* herb.~~

2028. Anthurium truncicolum Engler

vn. "monohuzka" Gt F COL

Terrestrial herb growing along  
river bank in dense forest. Spathe  
light green; spadix light green  
leaf blade horizontal. Leaves smooth,  
soft, rubbery. Spathe pendulous at  
maturity.

det. T. Croat 1980.

2029. Anthurium Eminens Schott

GtH, ~~RED~~ K F

det. M. Madison 1981.

Epiphytic climber, herb, about  
3 m., leaves 1-2 m. tall. Leaflets  
0.5 m long. Fruits violet, mature  
spadix brownish. Leaflets 13.

Young spathe purple. Spathe  
strongly involuted at the margin, white to  
pink above, dull red beneath, stigma maroon.  
Spadix to 85 cm long.

# Rio Moco

2030. Ficus K, US, S, F

Tree 10 m. along Rio Moco. Abundant milky juice.

2031. Philodendron rubens Schott vel aff. Araceae  
GH, ~~VEN~~, K, US, S det Kew 1975

Herb to about 4 m. tall growing epiphytic on tree trunk. Spathe green in bottom half, white above. Inside bright pinkish red. Spathe whitish cream. Sap turning red on exposure to air. Leaves <sup>characteristic</sup> ~~membranous~~ stiff. Strong odor of carrot in stem.

2032. Philodendron sp. ruizii Schott Araceae  
GH, ~~VEN~~, F photo → K

Herb to 2 m growing on rotten tree trunk along Rio Moco. Bottom  $\frac{1}{3}$  of spathe greenish white, middle third red, top  $\frac{1}{3}$  creamy white.

# Rio Macoa

Fruits green! Spathe white  
inside. Male part of spadix yellow.  
Leaves thick, leathery, smooth.

2033. Anthurium photo → K  
vn. "Chupapunga" cf. 2027A GH, ~~GH~~ F  
Herb terrestrial 2 m tall  
growing on hillside along Rio  
Macoa. Spathe whitish green  
Spadix creamy yellow. Leaves  
membranous, stiff. Spathe erect  
boat shaped around Spadix at first  
later pendulous. Mature Spadix brown

Sabado. 16 NOVIEMBRE 1968.

2034. Banisteriopsis rusbyana K, US  
vn. "Chagropunga"  
Liana.

→ Diplopterys cabrerae (Cuatr.) Gates  
det. Gates 1982.

# Rio Macra

Domingo 17 NOVIEMBRE 1960.

2035. Ardisia Rollinia

GH "gusuhana" det. James Walters

Tree 10 m tall. Trunk 30 cm.

Fruit subglobose to irregular to about 10 cm in diameter.

2036. K

Cyperaceae

GH, US, S

Herb to 2 m tall growing on cut-over hillside along Rio Macra. Sepals linear green 4. Petals green 4 more or less connate toward the tips. Filaments greenish brown. Gynophore greenish brown. Ovary green.

K ~~Ardisia~~  
2037. Anthurium brownii Mast.

m. "cecamba Sicse" (Inga)

Terrestrial herb 1 m tall in forest along Rio Macra. Spathe erect, light green, spadix bright red at maturity. Leaves stiff, membranous.

K, GH, ~~US~~ F

# Rio Mucua

LUNES. 19 de NOVIEMBRE 1968.

2038. Galathea Standleyi Macbr.

Marantaceae

m. "Cengarejo" Venenoga. Det. H. Davis ~~vijaya~~ "(Inga) vijaya" Kennedy. 1971.

GH Herb along forest trail to 1 m. tall. flowers pale orange. Near finca de Santiago

20 NOVIEMBRE 1968. Miércoles. Pepino

2039. Bravaisia grandiflora D. Don ssp. Schultesii (Lam.)

L Shrub about 2 m tall growing along roadside in Pepino. Cultivated. Pedicel to 7 mm long. Calyx 10 mm long cylindrical-campylotriangular, teeth acute 2.5 mm long, Corolla tube 20-25 mm, gynoecium (?) 7 mm from distal end. Limb of corolla 30-40 mm across. Lobes 5 about 10-12 mm long. Color Violet to nearly white. White disc around throat of tube 4 mm in diameter. Filaments white, adnate to corolla tube 10 mm, & shorter stamens free for 6 mm more, & longer 7 mm. Anthers buff-brown color.

Style to about 17 mm long, ovary about 1.5 mm long, somewhat conical. Style bilobed.

Leaves, light green somewhat shiny above, pale and dull beneath. Size 2 to 4 cm wide x 7 to 10 cm long.

21 NOVEMBRE 1960 Rio Guinea,  
8 km W. of Villagarcía.  
Elev. 500-700 m.

2040 Brumfelia grandiflora D. Don. ssp. Schultesii

ECOR  
MICH  
K  
F  
P  
M  
M  
W  
SIR  
var. "Chiric cepe chagruco"  
Shrub 3 m tall in garden of  
Daniel Jojoa 8 km from Villa-  
garzón on road to San José. Pedicel  
to 5 mm, calyx 10 mm, corolla  
tube 23 mm, corolla limb 40 mm  
across. ~~Fls~~ Violet in color fading  
white. Growing in shade under  
Artocarpus. Leaves large,  
soft smooth, stiffening some-  
what with age.

Fruit a capsule subround  
about 13 mm in diameter, green  
turning brown + dry with age.

# Rio ~~Amaz~~ Gineo

Use: the bark is scraped and  
pounded, placed in cold water  
to yield a purple-violet  
liquid the color of the flowers.  
Serve para febre cada  
hora uma copa.

2041. Bravaisia grandiflora var. Schultesii  
ECON. - "Picara Chiricase"  
A-JP

US K P NY Shrub about 3.5 m growing  
among platanos in garden.  
Pedicel about 4 mm; calyx to  
1.2 cm, teeth 2 mm long, acute.  
Corolla tube 2.2 cm long, limb  
to 4.5 cm across, violet. White  
circle at throat 6 mm in dia-  
meter.

Leaves smaller, smooth but  
stiffer than 2040.

Fruit a capsule turbinate-sub  
round to 15 mm in diameter  
green turning brown.



Said to be much more effective  
than "Chagruco Chiric aspi".

GK, K

det. Cuatrecasas 1972

2042. Stephanopodium peruvianum P. & E.

in "Calentura chiric aspi" Dichapetalaceae  
w/et Small tree 3 m tall in dense  
forest. Flowers said to be white, fruit  
small, yellow.

uso: the leaf is taken with Cold  
water for fevers.

US, Ecuador

2043.

Rubiaceae?

in "Salvaje chiric aspi"

Small tree 3 m tall in wet  
dense forest. Leaves almost bathery  
in texture.

uso: the bark is very strong remedy  
for fevers. A very small amount  
is used.

Rio ~~Atara~~ Gines

2044. Solanum  
GH

Shrub 1.5 m tall along trail in forest. Corolla white, anthers yellow, pistil white (style).  
Leaves shiny + dark above, pale and dull beneath.

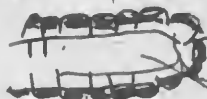
✓ K  
2045. Cephaelis williamsii Standl. Rubiaceae  
GH m. "Danta yanamuco" (Inga)  
Small tree 3 m. tall in wet dark forest in understory. Floral bracts pale yellow; corolla 5 lobed creamy yellow.  
det. Simpson 1973.

K, US det. D. Simpson 1973.  
✓ Faramea pectinervis Standl.  
2046. ~~Psychotria~~ Coussarea or Faramea Rubiaceae  
GH m. "Cucuchagra" (Inga)  
Tree 6 m tall in understory of forest. Inflorescence axis whitened.  
Calyx white, corolla tube bluish, corolla lobes blue.  
leaves stiff, membranaceous.

Monstera obliqua Miq.

2047. ~~Philodendron~~ det. H. Madison 1975 Araceae  
GH, ~~VER~~ F

Epiphyte (climber) growing on tree in forest. Leaves horizontal from stem. Fruit contains orange pigment towards surface of spadix



orange  
white

spathe green, deciduous in fruit. Spadix white.

→ Philodendron cuneatum Engl. det Croat 1982

Monstera MIXED COLLECTION

2048. Philodendron cf. cuneatum Engler Araceae  
GH, ~~VER~~, K, US, COL, F det D. H. Nicolson 1976

Epiphyte growing (climber) on tree in dark wet forest. Stem containing clear sap which turns reddish brown on exposure. Spathe light green with occasional maroon blotches. Spadix ♀ part greenish white, ♂ brownish. Ripe fruit bright red, spathe deciduous when mature.

Rio ~~Atenas~~ Gineo

leaves standing nearly vertical.

2049 Philodendron


GH, ~~HT~~ F

Epiphytic climber 1.5 m tall in trees. Leaf blades more or less horizontal. Spathe light green. Spadix cream white.

2050 Philodendron

var. "raipunga" GH, ~~HT~~ F

Epiphytic climbing herb in forest to 2 m tall. Spathe green with crescent shaped white line at base of inflorescence. ♀ flowers greenish, ♂ flowers brownish. Clear sap turns dark red brown on exposure.

leaflets at right angles 

2051. Anthurium

~~GH~~, F

Epiphytic herb. 5m in size.  
Petioles vertical, blade horizontal.  
Spathe light green, horizontal.  
Spadix erect, completely green.

2052. Anthurium BREVISCAPUM POEPPING

GH, ~~VER~~, F

Epiphytic herb about 1 m. growing  
on tree trunk in forest. leaf posit.  
Spathe light green, Spadix  
black, glossy.

2053. <sup>K</sup>Trema micrantha (L.) Blume

GH

det LBSm.

Small tree 3m. in stream bed of  
Rio Guineo. Flowers small, yellowish.

# Rio Gineo

22. NOVIEMBRE 1968.

✓ ~~2054~~ <sup>K</sup> Bellucia grossulroides

~~Melastomataceae~~

Vn. "benta guayaba" (Inga)

ECON GH Tree 6 m. tall along road to San José, 5 km. de Villagómez.

Caulescent. ~~Fls~~ Sepals green, 5 petals white, pink underneath. Stamens 12 yellow. Style and stigma white, forcing itself out of stamen ring at the side, not in center. Petals turning pale tan with age. Sweet smelling.

Mature fruit is edible, about 3 cm in diameter. Slightly sour but refreshing.

✓ 2055.

Labiales

Vn. "albahaca" (Inga)

ECON Herb 1 m tall in garden of apriano Josa. Corolla white with purple markings inside.

USE: con agua dulce se toma la hoja para nervios. Para rubé (enfermedad de los ojos), una pepita se pone (entera) en el ojo.

2056. Anthurium

foto → K

Vn "Sacha cola del monte" GH, ~~red~~ F

Terrestrial herb 1.5 m tall along path in forest near Casa del Cypriano Jojoal. Spathe light green erect. Spadix greenish white in flower, turning dark green at anthesis. Fruits dark glossy red, about 7 mm in diameter.

2057. ~~Anthurium~~ Rhodospatha latifolia Poepp.

"menredadera" "Cecumba sicc" (Tigua)

Herb climbing on tree in forest 2 m tall. Spathe large white (creamy) deciduous. Spadix salmon pink at first turning grey white. Sticky yellow juice on spadix when fresh.

Uso: Para muelas. Se cocina la "papa" (spadix) and place the liquid in la boca.

GH, ~~red~~ F photo → K

# Rio Gineo

2058. *Penealnia* <sup>K. nicolaioides</sup> ~~aff. exaltata~~ *Jugiberaceae*  
vn. Zirindango (Inga)  
Utrecht GH

uso: Para la picadura de víbora.  
Et jago se toma por boca crudo.

Large herb the leafy stalks to 4-5 m. inflorescence about 1.5 m tall. Floral bract orange (pale) corolla and floral parts pink. Sepals in fruit bright orange. Mature fruit green, reddish at the base. Pulp of fruit orange. Seeds white attached on long (5 cm) mucilagenous funiculus.

2059. *Colothea altissima* (Poepp. et Endl.) Koern. *Murantaceae*  
vn. Anduche Vijagua (Inga)  
Terrestrial herb nearly 2 m. tall in forest. Flowers very pale orange (cream), floral bracts buff. Fruits yellowish brown.  
GH

Det. J. Idrobo  
30 Dec 1968



Guronia rhizantha (Poepp. + Endl.) Tiephey

2060. K, Col

Cucurbitaceae

vn. Sicsé huasca (Inga)

Liana climbing in forest +  
about 10 m. long. 5 petals bright  
red-orange, fleshy, very fragile.  
Stamens yellow. Pistil? laterally  
fixed in side hypanthium.  
~~very~~

2061. Psychotria polyphlebia Donn-Sm. Rubiaceae

F det. DR Simpson 1972

Low herb growing on forest floor.  
Corolla tube white fleshy translucent  
5 lobed. Leaves corrugated. Stamens  
white

2062. Peperomia

Piperaceae

GH

Herb  $\frac{1}{2}$  m. tall growing on forest  
floor in humus. Fleshy. Inflorescence  
pale green to cream

# Rio Jirao

2063. Begonia. Fossmannia A. DC.

K Det Kew 1986

Climbing herb in forest to 3 m tall on tree trunk. Flowers pink orange, wings on fruit drying brown.

2064. Geogenanthus ciliatus Commelinaceae

vn. "oreja de negro"

Succulent herb growing on forest floor. Leaves very dark green above, almost black. Underneath dark purple.

GH

23 NOVIEMBRE 1968.

Gesneria

2065. ~~Browallia~~ ~~sp.~~

~~Scrophulariaceae~~

vn. "sin igual" A-JP

Herb cultivated in garden next to Hotel Central, Villagarzon. Corolla violet. Leaves dark green.

# Umbria

~~28~~ NOVEMBER 1968.

Umbria. 13 km south in forest near ROAD. Forest wet, very dark on hillside. Next to finca "SANTA MARTA" near El Wiskey. Elev. c. 300 m.

2066 ANTHURIDIUM HARLINGIANUM CROAT DET. T. CROAT 1988

2066A Anthurium ERNESTII ENGL. DET. T. CROAT 1988

GH Epiphyte on side of tree trunk, herb. Leaf blade 1.10 m. long, entire, thick and leathery.

F-2 Spathe descending stiff somewhat maroon. Spadix dark salmon pink, erect.

Profuse ~~mass~~ mass of roots.

(A) Smaller specimen of same sp.?

Fructing spadix Violet-purple. GH, F

2067 Anthurium clavigerum Poepp., unusual form, possibly hybrid with A. triphyllum det. A. Moldenke 1981.

GH, ~~det~~, K F

Epiphytic climbing herb, 1.5 m tall. Leaves ~~mesomorhaceous~~ shiny, dark above, pallid beneath.

Spathe dark purple, descending. (pendant). Spadix light brown, pendant.

Leaves palmate compound with 3 to 5 leaflets. Peduncle enclosed in sheath of petiole.

FOTO

# Umbria

2068 ~~Cotyledon~~ Homalomena PICTURATA (LINDELL) <sup>ANDRE</sup>  
photo. (TH, ~~VER~~) F. DET. R. WUNDERLIN 1995 REGEL

Terrestrial herb 0.8 m tall growing on forest floor. Leaves simple cordate ~~membranaceous~~ <sup>chartaceous</sup>. Spathe enclosing spadix at the base but free above. Basal part pink, greenish white above. Spadix white throughout.

2069. <sup>Cycanthaceae</sup>  
Climbing epiphytic herb on tree trunk.  
Inflorescence green, in fruiting stage.  
GTH

2070. GTH <sup>Cycanthaceae</sup>  
Terrestrial herb on forest floor. about 1 m tall.  
"Fruiting inflorescence green."

2071. Piper florencianum Tr. & Yunck. Piperaceae  
GH, US, K det. R. Callejas 1985.

Small shrub or treelet to 3 m tall  
in forest.

Leaves membranaceous, hairy.  
Inflorescence + infructescence  
green.

2072. Saccoloma inaequalis (Kuhn) Polak. Polakaceae  
GH, US, K det. M. T. Muller 1985.

Herbaceous fern 1.5 m tall on  
forest floor.

GH, COL

2073. Trichipteris nigra (Mart.) Tryon. Dryopteridaceae  
GH, US, K det. M. T. Muller 1985.

rh. "Semarón bomgush" Kemjān

Tree fern 4-6 m tall in forest.  
Clear resin sticky, turning  
reddish on exposure.

GH, AL

# Umbria

- ✓  
2074. Brownea vaupeana Killip Leguminosae  
GH rh. Flor de Palo Cruz.  
Tree 15 m tall in forest.  
Flowers, subtended by pink-orange bracts. Petals pink to red, Calyx pink turning brown.

- Cymbopetalum brasiliense (Vell.) Benth.  
2075. ~~Xylopia~~ det. G. Schetz 1982. Annonaceae  
GH, COL  
Tree 6 m tall in forest.  
Fruits bright yellow green, shiny.

- ✓  
2076. Carpotroche longifolia (Reppig) Benth. Flacourtiaceae  
GH det. Steumer, 1980.  
Tree 6 m tall in forest.  
Fruits caulifructous, white with soft outgrowths of the bony fruit wall.

✓  
2077. Grieta neuberthii Macbride det. Mori 1989.  
G.H. K. Peruviana Miers Lepthidaceae  
det Kew 1975

Tree 20 m tall. Flowers cauliflorous. Receptacle brown. Sepals 4 pink, petals 4 ~~pink~~ creamy yellow. Stamens yellow. Fruit brown. Leaves about 1 m long, all ~~near~~ the top of main stem. Unbranched, or sparsely so.

✓  
2078. Drymonia umecta Wiehler Genesicaceae  
G.H. det H. Wiehler 1977.  
Vine growing on tree trunk. Leaves not obtainable, very high. Bracts bright red, Corolla bright yellow.

2079. Galathea Marantaceae  
"M. tigre vijaguz" (Snpa)  
col. Herb to 1.2 m tall growing in forest near road. Leaf blade green above, dark maroon and dark spotted (parallelgram) on light green background, shiny.

# Umbria

Underneath purple splotches and bluish background.

2080. Brunfelsia chiricacsi Plowman sp. nov.  
ECOD

Small shrub 1 m tall growing in ~~the~~ forest. Leaves smooth dull dark green above, paler beneath.

✓ Bark of stem and root indicate presence of alkaloids. Leaf also in Dragendorff solution.

---

Thursday. Thanksgiving. 28 NOVEMBRE  
Forest about 2 km from San Pedro - southwest. Sl. 250-300 m.

2081. Brunfelsia chiricacsi sp. nov.  
ECOD

UC  
F  
S Shrub in forest 2 m tall near clearing where lived armadillos. Various plantlets nearby in dark undergrowth. Rare plant cut by hunters but cut pieces



sprouted reddly.

leaves large, very smooth soft  
but firm. Medial vein protruding  
beneath but lateral veins scarcely  
visible above. Dark green above  
completely dull, pale green beneath.  
Bark distinct due to longitudi-  
nal splitting of epidermis.

2082. Markea porphyrobaphes ~~Stark~~ Polunaceae  
US, GTT,

Shrub growing as epiphyte on  
tree, about 60 cm tall. Calyx  
3 cm long, light green, ~~5 parted~~  
5 parted, fringed, lobes 1.7 cm.  
Corolla 6 cm long, lobes recurved  
1.7 cm long. Light green at base  
becoming brownish toward distal  
end. Lobes greenish brown, velvety.  
Pericorolla tube reddish dark  
brown. Anthers united in ring around  
pistil.

Leaves smooth membranaceous

# San Pedro

~~Vincentia~~

Stiff and shiny. Large woody  
beak-like structure at the base  
from which arise the roots.

2083 Anthurium aureum Engl. Araceae  
GH, ~~1979~~ F det. T. Croat 1979.

Herb 80 cm tall found growing  
in forest epiphytic on trees and  
also on ground, perhaps fallen.  
Spathe green, erect. Spikes  
cream colored when young  
turning a deeper pale yellow.

2084 Philodendron Araceae  
GH, ~~1979~~ F

Climbing epiphytic herb on  
small tree in forest. Spathe  
green nearly yellow at distal end  
where it forms a hood. Spikes nearly  
completely enclosed except the  
very tip which protrudes into hood.

San Pedro  
~~historia~~

<sup>K</sup>  
2035. Solanum jamaicense Witt.

GH, US

Shrub 1 m tall growing near  
road in San Pedro, Calyx green,  
corolla white, stamens yellow.  
Fruit a berry about 1 cm in di-  
ameter, at first green → yellow → red  
→ black.

San Antonio de Guamués  
1 DECEMBER 1968 c. 300 m.  
elev.

2086. Ochroma K

Bombacaceae

Flower washed up on shore.

✓

2087. Ficus K, US, S, F, P

Tree 10 m tall along trail  
to Santa Rosa. Figs about  
1 cm in diameter. Leaves thin  
leathery. Creamy white  
latex abundant. Figs brown  
in color.

✓ K

2088. Solanum marmellosanum Bitter  
Frt, US, S vel aff.

Tree 6 m tall along path  
to Santa Rosa. Trunk 6 cm in  
diameter. Corolla white. 12 cm long.  
Calyx white. 5 cm long. Anthers  
yellow. Fruit green round

about 15 m in

2089.

GIF, K

Apocynaceae

Small treelet 3 m. in shady  
dark forest along trail to Santa  
Rosa. Leaves membranous.  
Fruit yellow orange about  
4.5 cm, round, paired. Seeds  
many, black. Abundant  
milky juice.

Inside portion of ripe fruit  
edible.

2090. Bravaisia grandiflora D. Don

ECON

subsp. Schultesii

A Shrub 1 m tall growing from  
stump 2.5 cm in diameter  
along fence row in pasture-  
path to Santa Rosa. Pedicel  
5 mm, Calyx 9 mm, corolla  
tube 20 mm, corolla limb  
34 mm across, deep violet,  
white at throat. Leaves rubbery  
shiny, pale beneath.

# Rio Guamues

2091. Brumfelia grandiflora D. Don

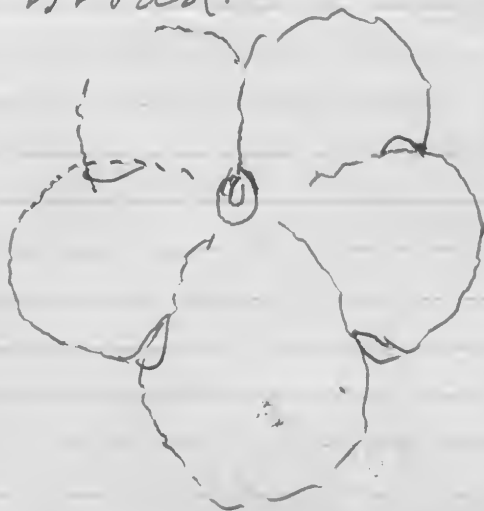
Subsp. Schultesii

<sup>INPA</sup>  
<sup>ECOB</sup>  
A-JP Large shrub 4 m tall in Plaza  
de Junta Rosa. Trunks about  
10 cm in diameter.

Leaves on old growth small  
and coriaceous, those on new  
growth large and membranaceous.

N.B. Prominence of lateral veins.  
Leaves shiny, dark above, dull and  
pale beneath.

Pedicle to 7 mm, calyx to about  
62 mm, teeth 2 mm long, corolla  
tube 2.6 cm, the limb reaching  
46 mm x 40 mm, slightly longer  
than broad.



No odor.  
Color deep  
violet →  
white

K  
UC  
P  
M  
LE

(A) → K

2 DECEMBER 1968.

TRAIL FROM Santa Rosa to ~~Bar~~  
to Ormiza (under construction).

2092. Brumfelsia chiricaspi Plowman sp. nov.  
ECON. "chiricaspi" cavi tsontinbo'kio' kofu  
A

Shrub to small tree really  
3m tall (4m) in very shady  
forest (mature more or less) the  
stem to about 5cm. in diameter.

Stem + Bark → ECON products.

K  
US  
F  
P  
NY  
GB

SR. HECTOR CRIOLO  
SANTA ROSA







# Rio Guamues

2093. Piper  
C.H.  
K

Piperaceae

Herb 3 m tall, single spindly stem in dark forest. Inflorescence erect, brown.

USE: mixed with Gongibe'u for curare-arrow poison.

2094. Ostea venenosa Kosterm. + Pinkley Lauraceae  
var. Gongibe'u: Kofu

Tree about 35 m tall in forest. Fruit plentiful on ground beneath tree, also seedlings.

Odor of <sup>young</sup> bark very aromatic "typically" lauraceous.

USE: for arrow poison. The bark is boiled in water in a well sealed pot.

Bark very bitter

ECON, INPA, K,

~~Solanum~~ sp.

2095. Besleria sp.

~~Solanum~~

GH, K, US

Sluffrutescent herb 2.5 m tall.  
Leaves coriaceous. Flowers in  
clusters laterally. Calyx green,  
corolla yellow, 5 lobes.  
Stamens 5, 2 long, 3 short attached  
to corolla tube. Anthers white,  
ovary white.  
Fruit a hairy berry, green.

2096.

Marantaceae

Herb about .80 m tall. Flowers  
white. Leaves green with  
darker green splotches (paired  
laterally) on the blade. Pale  
green beneath.

2097-

Marantaceae

herb about 20 cm tall on forest  
floor. Flowers white. Leaves dark  
green above with light green

# Rio Guamaes

stripe along median vein. Purple underneath without markings.

P. CF. ALBA R. & P. (C.W. HAMILTON 1992)

2098. Psychotria alba R & P Rubiaceae  
GH, K det DR Simpson 1972

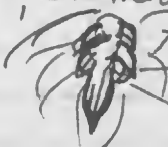
Small straggly tree about 4m tall in forest. Leaves smooth membranaceous. Calyx and Corolla yellow (lemon). 5 Corolla lobes. <sup>reflexed</sup> Stamens with white anthers.


2099 Solanum supranitidum Bitter  
GH, K, US, S, F, P

Tree 5m tall along trail to river near Santa Rosa. Sepals white, petals white reflexed. Anthers yellow.  
det. S. Knapp 1985.

2100. Solanum

GH

Herb 46 cm tall in forest along  
trail to Cerretera from Santa Rosa  
Sepals dark green. Corolla lobes  
5 greenish, slightly zygomorphic.  
Stamens strongly zygomorphic, 1  
anther large, extended the other  
four smaller.  Petals yellow.  
stamen.

Fruit a berry greenish yellow  
with 4 green stripes  Round.

Chiricaspi -

About 1 lb of scraped bark.  
Dip in cup of water little  
at a time to extract  
liquid from bark. Color  
of product - brownish very  
similar to yagé.  
Taken at sunset.

Effects: after about 10  
minutes tingling sensation  
in the lips followed soon  
after by sensation in the  
fingers. Tingling at the  
same time vibrating.

Tingling as if parts of  
body "fell asleep" at a leg  
or foot and by waking  
up.

Next follows tingling  
in the mouth and upwards  
in the face. Later the hands,  
the tongue, the feet, the  
elbows and the region  
from the shoulders the  
length of the back of the  
neck. After one hour  
the feeling nearly general.

throughout the body; back  
legs all of face, lips and  
hands and back of neck  
the strongest. But not as  
thoroughly effecting mind  
directly fits the vibrations  
from the skin which work-  
ing together are serving  
to store the mind.

Occasional chills but  
mild and not really  
cold. More like a sensation  
of vibrations underlating  
through the body.

Now the scalp and the  
head in general vibrating  
tingling. Moving the  
head and hands increase  
the sensations. Urge to  
speak periodically from  
beginning. Vibrations  
somewhat electric now  
penetrating chest and  
back. Thinking still  
fairly clear.

One hour later: acute stomach  
pains. no ex. possible to  
breathe. Tingling extreme  
in hands, feet and  
head. ~~Headache~~ feeling  
also. Bitter taste in  
mouth. SENSATION of cold  
but vague. No shivering  
or chills.

Later: Tingling and chills general  
throughout body. Dizziness, pro-  
nounced loss of coordination.  
Nausea also but no vomiting.  
Walking very difficult - everything  
"spinning". Terrible pains in stomach.

Stop comes eventually after  
walking home with great  
difficulty.

Next day extremely weak and  
dizzy all day long. Keep falling  
over.



# R. Guamús

3 December 1968.

Trail from San Antonio to Santa Rosa.

2101. Theobroma bicolor Humboldt & Bonpl. Sterculiaceae  
"cacao silvestre" K

Tree 8 m tall on edge of town  
San Antonio. Fruits large ~~elliptic~~  
12 cm in diameter, 20 cm long  
yellow at maturity. Pulp sweet,  
smelling of mango but insipid to  
the taste. Fruits borne on smaller  
branches, not on trunk.

2102. Ficus

K

Sapling in corn field about 2 m  
tall. Pith solid. Juicy cloudy, but  
not very white. In full sun.

2102A Ocotea venenosa

(1) FR. on forest floor.

F

# Ris Gsumus

2103. Ficus

K., US

Sapling 3 m tall in forest, shady.  
Pith hollow. Abundant white  
milky juice.

2104 Cassia

Cesalpiniaceae

GH, K, US

Tree 5 m tall along trail on  
edge of forest. Petals yellow orange,  
in ~~the~~ <sup>the</sup> ~~the~~ yellow turning dark brown,  
pistil green.

2105.

Apocynaceae

GH, K, US, S

Shrub 2 m tall in forest. Flowers  
creamy white. Petals aestivated  
counter clockwise in bud. In shade.  
Sap is milky juice.

2106. Psychotria ernestii Krause Rubiaceae

K, US, S DET. D. SIMPSON 1972

Shrub 3 m tall in 2° growth in bottom land along river (Rio Guemve's). Corolla tube creamy white, stamens brownish, style white.

P. ERNESTII KRAUSE VEL SP. AFF.

DET. C. W. HAMILTON 1992

2107. Acalypha  
GH, K

Euphorbiaceae

Tree 4 m. tall in 2° growth along river. Male flowers yellowish green, female flowers green.

6 DECEMBRE 1968. - San Antonio

2108. Besleria variabilis Morton Gesneriac.  
~~Scroph.~~

GH, BH, DUB.

Herb 1.5 m. tall growing along path to river. Flowers waxy, pale orange; 5 corolla lobes unequal. Fruit a capsule the walls of which split unequally reflexing to reveal central placenta contains many seeds.

# Rio Guamús

✓ Trail from San Antonio to Santa Rosa.

2109. Justicia petianthia Leonard Acanthaceae  
US vj. "Col de monte"

Shrub 2 m tall in shade  
in forest. Corolla bright pink  
to red, bilabiate, secrete at the  
base. Style fused to upper lobe  
for most of length. ~~A~~ filaments  
2, each with 2 anthers, the lower  
anthers fused.

foto

det. T. C. Plummer

✓  
2110. Smilax us, s

GH Vh. "Shinveriaja" (Kamsa)

K Vine growing in forest climbing  
in 2' growth. In shade. Fruits  
orange with 2 hard stones inside  
also orange. Fruits about 13 mm  
across, spheroid. Herbaceous  
or semi woody.

✓ GH, K, US, S

2111. Urera

Urticaceae

Tree 5 m tall in forest shade.  
Achenes green. Receptacles pale  
green, very fleshy. Stings a little  
in: "ortiga blanca"

2112. Markea  
GH, ~~K~~

Simarubaceae

Epiphytic shrub 2 m tall, weakly climbing in Crotch of tree.

2113. Philodendron  
GH, ~~150~~ F

Araceae

Vining aroid climbing on tree, with long runners trailing to ground. Abundant with juice. Spathe green, fruiting spadix white.

Schizmatoglottis spruceanum (Schott) Bunt.  
det. T. Plowman 1982.

Dieffenbachia sp. nov.

2114. Homalomena det. M. Madison  
1981.

Araceae

GH, ~~150~~ F

Terrestrial herb on forest floor. Spathe dark green completely enveloping spadix. To about 0.5 m tall.

Photo

# Rio Guamués

2115. Scutellaria coccinea Kunth. ~~Scutellaria~~  
US, K det DE Wasshausen Sept 1972 Labiateae  
Herb on forest floor to 1 m  
tall. Corolla bilabiate red to  
pink

2116. Dichoriscandra sp. Commelinaceae  
GH, K  
Herb on forest floor along trail  
about 1.5 m tall. Sepals white  
fleshy. Petals membranaceous  
white at base, purple tipped.  
Anthers purple. Flower slightly  
zygomorphic. Fruit a berry,  
fleshy, purple, sepals persist-  
ent in fruit.

2117. Vismia SP. AFF. SUBCUNEATA Guttiferae  
GH, K, US, S, F DET. H. K. ROBSON 1992  
Tree 5 m tall along trail near  
river. Sepals brown, petals  
white. Stamens many, fascicled  
white, anthers yellow.  
Bright orange juice in bark.

Fruit green turbinate, sepals  
persistent.

2118.  
GH

Cycanthaceae

Vining herb on tree in forest.  
Fruit green. Plant about 1.5 m  
high.

2119 Ficus K, US

Tree in shady forest 7 m tall  
with few leaves at top. No figs.  
Abundant milky juice in bark.

2120. Ficus K, US, S, F

Tree 25 m tall along trail near  
San Antonio. Figs smooth to about  
3.5 cm in diameter. Milky juice  
in figs abundant but scarce in  
stems.  
in "higeron"

# Orits

Orito, Putumayo. 11 Diciembre 1960  
Rio Calderas, in forest near  
Road. Forest had been cut it seemed  
probably for large trees only.  
Elev. 300-400 m.

2121. Presloea sp. Palmyra  
BH, A, K det. H. Moore 1972

Small tree 4 m. tall in forest,  
trunk 1.5 m tall, leaves 4 to 25 m  
tall. Inflorescence ~~lateral~~ bright red.  
Subtended by long bract. Fruits  
red, about 4 mm long. Branches of  
inflorescence straight not curved  
or pendant.

2122. Acalypha Euphorbiaceae  
GH, K  
Tree growing along stream in  
forest 4 m tall. Juice clear.  
♀ flowers pale green, ♂ flowers white.  
Inflorescence pendant.



Howard Pfeiffer.

2123. Aristolochia

GH

Aristolochiaceae

liana 12 m tall in forest.

Flowers emergent from the woody stem, leaves at the top in tree branches

Flowers with calyx 15 mm long, creamy white, corolla 90 mm long, tubular.

limb about 45 mm long, tube about 45 mm, Colored with "white" cross-hatch" on a dark purple brown background.

sp. nov. ined.

2124. Nautilocalyx plummerii Wiehler Geraniaceae

GH

det H. Wiehler 1977.

Low herb on forest floor, somewhat succulent. Sepals light green with purplish spots, Corolla white, tubular, about 5 cm long, the limb spreading to 3.7 cm. Yellowish inside the tube. Stamens & anthers brownish, filaments white.

Onto

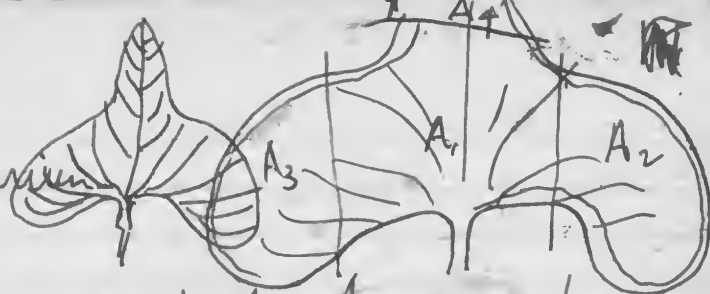
2125. Dieffenbachia parlatorae <sup>Linden & André</sup>  
CrH, ~~Gr~~, K, U.S., F Araceae

Terrestrial herb growing in moist low places in forest and along stream to 1 m tall. Leaves to  $\frac{1}{2}$  m long with very thick medial vein which narrows toward the tip. Inflorescences arising from the center of the rosette of leaves, fairly tightly compacted.

Spathe green, completely enclosing spadix and united to it for half the length, thus female flowers on one side whereas male flowers occupying upper half of spadix completely encircle it. Ovary light green with yellow stigma; Stamens white. Male flowers creamy white.

Latex creamy white with strong odor of skunk.

2126 Anthurium  
GH, ~~WAT~~  
F-3



large epiphytic herb on tree trunk about 2m tall. Leaves large. Shape as above. Spathes light green erect, spadix bright Red-Pink

2127. Cochlostemma <sup>COL</sup>  
<sup>K</sup> odoratissimum <sup>GH</sup> Lemair ~~Bromeliaceae~~

large epiphytic rosette plant on side of tree trunk. Leaves one meter long. Flowers axillary, the sepals pale lavender, the petals light blue, fringed at the margin. Stamens enclosed in double rather sacs lavender. 2 fringed staminodes white. Base of fertile stamen with bright orange hairs-fringe. Ovary white, style lavender.

Also seen cultivated in garden in Puerto Asis!

Orts

Warszewiczia

Warszewiczia Coccinea

2128 ~~Solanum~~

Rubiaceae

GH, K, US, S, F

Tree 10 m tall with a trunk  
8 cm in diameter. Lvs green with  
one lobe on some flowers greatly  
enlarged into a colored bract (red pink)  
Petals yellow orange.

2129. Solanum

GH

• Small shrub-herb growing along  
river bank. Flowers small. Corolla  
greenish white reflexed lobes,  
2 mm long. Anthers elliptic yellow  
1 mm long. Fruit a berry, the  
fruit wall rugulose with a  
wrinkled appearance when fresh,  
also firm.

\*Analysis

2130. Markea porphyrocalyx Sandwith Solanaceae  
ex char.

GH

Epiphytic shrub on side of tree trunk 1.0 m tall. Flowers pendant underneath the leaves. Sepals 4.5 cm long; Corolla tube 9 cm long, the lobes 8 mm. Corolla cream colored with tint of green outside. Inside dark maroon red.

MARKEA PLOWMANII HUNZIKER [TYPE]

KURTZIANA 25:102.1997

2131.

Small herbaceous fern growing on bank of stream in forest.

\ Bolbitis oligarchica (Baker) HENNIPMAN  
2131a Bolbitis sp. nov.?

GH

Terrestrial fern about 1 m tall, dimorphic fronds growing on floor of forest along stream.

det. HENNIPMAN 1972

Oritia Cnemidaria ewanii <sup>vel. aff.</sup> R. Stoliz 1971.

✓ (Cnemidaria) 11 Dec 1968.

2133 Hemitelia subincisa Kuhn <sup>gall. on</sup>  
F, GH, COL.

Terrestrial fern about 1.5 m tall.  
Fronds once pinnate; the pinnae  
lobed. First pair of pinnae sterile.

✓ 2134 Rapatea muaja García-Barriga  
et Mora <sup>Ky.</sup> Rapateaceae  
GH, K, US det. P. Plowman 1973.

Terrestrial herb on forest  
floor. Inflorescences rising from  
axilla of leaves 1.2 m long with  
a sheathing broad base. Inflorescence  
subtended by two subequal bracts.  
Flowers chaffy.

2135 Anthurium aureum Engl.

GH, ~~US~~ F.

det. T. Croat 1979.

Terrestrial herb 0.5 m tall. Spathes  
green perpendicular to erect  
white spadix.

2136 Pityrogramma calomelanos Link  
 wet fern GH det. H.T. Muller  
 Terrestrial fern growing as a  
 weed in clay area near road side.

2137 Dimerocostus  
~~Strobilaceus~~ O. Ktze. Luribaceae  
~~Strobilaceus~~ det. Maas. 1972. Utrecht  
 Congria  
 Herb 1.5 m tall growing near  
 edge of woods. Corolla tubular  
 white.  
 Use: Para fiebres el palito se muele con  
 agua fría; Toma Crudo.

2138. Pentagonia spathocalyx Rubiaceae  
 K. Schum det. Simpson 1973.  
 Small tree near roadside in cut  
 over area 5 m tall. Fruit a  
 green berry about 3 cm in  
 diameter.

Orto

2139. Polypodium ~~sp.~~ bifrons Hook.  
GH Wille 1968.

Epiphytic fern growing in large shrub along roadside. ~~Fleshy~~ (succulent) stems developing large (3 cm in diameter) succulent tubers which serve as ant houses. Ant plant. In hot sunny area. Folds many brownaceous.

Puerto Asis. 13 DEC 1968. Friday.  
In environs of town. Elev. 260 m.  
Photo

Photo

2140. Moudera ~~serena~~? dubia (HBK.) Engelm.  
G4, ~~10~~, K, US, S, F Krause

Epiphytic climbing herb. 2 m tall.  
Mature spadix tan colored (buff)  
about 14 cm long. Leaves large  
perforated. Growing on small tree  
~~at~~ along fence row.

Oct. M. Madison 1977.



2141. ECUS.

K, US, S, F

Epiphytic shrub-tree growing on Inga  
Sp. along trail. Milky latex. Leaves  
dull green. Figs green with bracte-  
olous brownish markings, about 1.2  
cm long, the knob 2 mm long and  
dark brown.

2142. Physalis. angulata L.

ECON M. "huilla"

Herb 0.5 m tall in pasture Corolla  
yellow. Calyx lobes green with  
purple veins in fruit.

det. T. Plowman

2143.

Labiatae

ru. "albaca"

Herb 0.5 m tall growing in  
pasture. Corolla white. Strong  
aromatic odor.

ECON

# Puerto Rico

→ P. deflexum Poeppig  
det T. Croat 1985.

Photo

2144. Mulodendron panamense K. Krause  
Gr. ~~var.~~ K. F det Kew

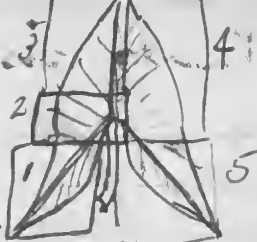
Epiphytic herb on small tree along fence row. Leaves large to 1.4 m long, 0.7 m the blade 0.7 m the petiole. Spadix erect. Spathe green outside. Inside white above with red markings, open at flowering, beneath deep blood red completely enclosing spadix.

Spadix greenish-yellow beneath, cream white above.

Sap clear colorless sticky with resinous odor.

Photo

2145. Xanthosoma "pasadera"  
Gr. var. "sicse" "tojjo xomus" (kaima)  
F Terrestrial herb 2.5 m tall in swamp area in forest (2').  
Leaf blade about 1 m long, serrate. Spathe completely surrounding spadix, spathe white above, green below outside. Inside white above, deep reddish purple beneath. Spadix ♂ + sterile part white, beneath, ♀ flowers bright orange.



2146. Urospatha sagittifolia (Roez.) Schott  
GH, ~~W~~, K, F det. M. Madison 1981.

Herb to 2.5 m tall growing in Swamp in woods (2). Spathe outside greenish + brownish, inside light cream to green above. Spadix 13 cm long, brown.

### \* Custreacas

(Gleason) Custrec.

2147. Matisia Quararibea longiflora

(Bombacaceae)

GH, K, US, S

det. B. Alpersen 1985.

Tree 8 m tall in forest. Leaves large papery. Flowers horizontal, sepals brown, petals 2nd stamen column yellow. Fruit a berry or capsule 5 cm in diameter round with a small knob at the end.

2148. Philodendron

GH F

Herb 1 m tall climbing on small tree in forest. Spathe green, completely encircling Spadix, 9 cm long.

# Puerto Asís

2149. Stromanthe

Marantaceae

GH  
col Herb 1 m tall in secondary  
forest floor. Ovary yellow  
orange in fruit, sepals green.  
Petals white.

2150. Briqua sp.

Gramineae

US, GH ~~det.~~ T. S. Johnston

Herb growing in forest.

Puerto Limón 16 Diciembre 1968

Elev. 370 m.

2151. Brunfelsia grandiflora ssp. Schultesii

K. Vn. "Chiricospí" (salvaje or picura)

ELON  
BURN Shrub 3 m tall in fence of  
Venancia Buesaquillo, growing among  
plantains y yuca. Said to have been  
brought from the mountains and  
planted here. Corolla deep violet  
to white. Ants -

INPA, A, F, Mc,

2152 Phyllanthus acuminatus Vahl  
A-JP vn "rinto barbasco" det. T. Plowman  
K. IUS Shrub to treelet 3m tall planted  
S cultivated in finca among plantains  
and yuca. Flowers small, the tepals  
greenish to cream, unisexual but  
both types ♂+♀ on same tree.

USO: The crushed leaves are used  
for poisoning fish, are thrown  
in the river.

.....  
2153. Clibadium silvestre Compositae  
K. vn. "barbasco huitoto"  
E. IUS Shrub cultivated in finca;  
A-JP vn about 2m tall. Corolla white, anthers  
black. In fruit, the bracts becoming  
fleshy and black enclosing the  
several achenes.

Puerto Limon

16 Dec 1968

2154. Herrania breviligulata RE Schultes D. culicarpa  
A, INPA, K

Small tree 5 m tall in (Garden)  
farm. Flowers cauliflorous, the  
younger toward the base of trunk.  
Single trunk, leaves all at top.  
3 sepals pinkish brown outside, deep  
pink inside (above). 5 stamens with  
a flattened base covering 2 stamens  
with long extended portion coiled  
inward at the tip, ~~pink~~ pink.  
Petals 5, pink. Ovary white,  
Style pink.

Fruit velvety, 8 cm long,  
with 10 ribs ~~5~~, 5 large, 5 small.

(Howard Pfeiffer)  
2155. Aristolochia  
Gr H, K

Vine climbing on rotten stump  
in farm garden. Limbs of corolla  
spotted with dark maroon and  
bright yellow background on  
inner surface. Flowers 8.5 cm  
long, the corolla 7 cm.  
Fruit 13 cm long, 2 <sup>capsule</sup> berry.

✓ Couroupita guianensis Aublet det. S. Mori 1985  
2156. Couroupita guianensis, Euphyllidaceae

in "coco sachapura" GH, Ecod, K, US  
large tree 25-30 m tall along edge  
of field near road at Puerto Limón.  
Flowers cantheflorous. Receptacle  
yellow. Sepal reddish. Petals deep  
yellow beneath, <sup>very fleshy</sup> bright pink  
red. Filaments bright pink.  
staminodes and column white.  
Flowers 14 cm across.  
Fruits woody to 20 cm in  
diameter.

✓ 2157. Croton lechleri Muell. Arg. Euphorbiaceae  
GH "v. "sangre gao"

Small tree 10 m tall along  
roadside at Puerto Limón. Perianth  
greenish-white, stamens white,  
very green.

uso. El sumo sirve para dolor  
de las muelas.

Ecod, K, US

Eleu 300-350 m. A. YOCOPENA.

171 Diciembre 1968, Rio Caqueta, Limon Abajo.

2158. Banisteriopsis caapi (Spruce) Morton  
US m. "yage"

ECON, K Bejuco de 5 m. de altura  
US cultivada a lo largo del rio.  
No tiene flor. Leaves medium  
green above, medium to not  
shiny, pale green underneath.

→ Diplopteryx cabrerera (Cuatr.) Gates det. B. Gates 1982

2159. Banisteriopsis rusbyana (Niedenhu) Morton

US m. "Chagro panga"  
ECON, K Bejuco de 3 m de altura  
Cultivada en bosque. Hojas  
verdes obscuras brillantes  
Shiny, pale green beneath  
Stiffer than 2158.  
Less vining in habit than 2158.

→ Solanum supranitidum Bitter. det. S. Knapp 1985.

2160. Solanum cf. orgyale Morton

Gr, K, US, S

Small shrub to tree 3 m tall  
along trail. Petals white  
Sepals white; Anthers yellow.



✓  
2161. Dioscorea,  
vn. "mesarmyame"

Vine growing along trail to  
Yocopetia from Puerto Limón.  
Petals green, anthers yellow.  
In 2<sup>o</sup> growth.

ECON, K, MS, S, F

MM

✓  
2162. Caludorica palmata R. & P.

Cyclanthaceae

GH vn. "iraca"  
ECON

Herb to 3-4 m de altura  
growing along lowland near  
river. Terrestrial. Spadix  
green to cream at maturity,  
the ~~fruit~~ fruits bright red or orange.

Uso: leaves used for thatching  
roof & young leaves used  
for fibers to make hats etc.

# Puerto Limon

2163. Solanum  
GH var. cojaca

Tree 15 m tall in 2° growth.  
Corolla lavender; anthers  
yellow, tapered.

I. DE ALFONSO JOJOA, GOBERNADOR  
PUERTO LIMON  
% DON ISMAEL.

18 Diciembre Trail to Yocopeña.

2164. Aphelandra aurantiaca (Scheidw.) Lindl. ~~(A. aurantiaca)~~  
GH var. stenophylla Standl. ~~Scrophulariaceae.~~

Herb growing on forest floor.

Corolla bright orange. Deep shade.  
det D. Watschauer 1973

2165. Croton

GH, K, US

Euphorbiaceae

Tree 8 m tall along river, ~~on~~  
7 flowers green, stamens with  
6 stigmas.

2166. *Siparuna*

Roniniaceae

m. "mangapacassi" FH, K, US, S

Tree along river and trail 7 m tall. Fruits whitish with red coloring, fleshy but thick. Aromatic odor. Fruits pendulant.

2167. *Cecropia*

m. "paya del monte"

Small treelet 2 m tall along trail. Petioles hollow; with juice. Flowers creamy white, anthers yellow.

ECON

= *G. affinis* Standl. ex Steyer. det Simpson 1976.  
(HBK.) Standl.

2168. *Gonzalagunia cornifolia*

Rubiaceae

G, H, K det D. Simpson 1972

Shrub 3 m tall along trail. Corolla white, 15 mm long, 4 lobes, recurving slightly with age. Berry white 8 mm in diameter.

# Puerto Limon

2169.  
C.H., K

Mimusperm

Vine climbing in 2<sup>o</sup> growth  
along trail. Fruit 8 cm in  
diameter, green with 4 ribs  
at the corners, quadrangular,  
4 large seeds inside.

2170. Pentagonia spathycalyx K. Schum. Rubiceae  
det D. Simpson 1973

Shrub 2 m tall in 2<sup>o</sup> growth  
along river. Flowers 5 cm long,  
white, the lobes of the corolla  
pink. Cf. # 2138.

2171. Brongnia grandiflora sp. Schultesii

ELDON  
M. Picra Chiricasp.

Cultivated shrub in house yard -  
2.0 m tall (Veronica Buesaquillo) along  
river. Calyx 12 mm long, corolla  
tube 2.7 cm, corolla limb to 40 mm  
across

2172. Tessaria integrifolia R. + P. Compositae  
GTH, K, US det. Cuatrecasas  
Shrub to 2.5 m growing in  
sand washes along Rio Cagueta.  
corolla violet, bracts brown.

2173. Calliandra augustifolia Spruce Mimosaceae  
GTH, K, US det. Cuatrecasas: 1/2/69  
Shrub to 3 m tall along river,  
on beach among pebbles and  
sand, forming thickets. Peculiar  
horizontal branching habit.  
Stamens conspicuous, the fila-  
ments white at base, pink  
distally.

# Rio Cuzcota

19 DICIEMBRE 1968, Floresta. 15 km from  
Puerto Limon by foot 300-350 m.

2174. Brunfelsia grandiflora ssp. Schultesii

Vz. Chiricashpi Picudo "Picudo"

ECON

~~Shrub~~ Shrub 2 m de altura a lo largo del  
camino entre Platanos. Silvestre  
no era cortado, dejado. Flores  
mazorcas claras. Calyx 1.2 cm  
largo, tubo de corolla 2.8 cm,  
limbo de corolla 4.5 cm across.

ssp. Schultesii

2175. Brunfelsia grandiflora D. Don  
Vz. "Picudo Chiricashpi" (Inga).

ECON

A Arbusto 1 m de altura a lo  
largo del camino entre pl-  
tanos. Fruta 1.5 cm en dia-  
metro, verde.

UC

MG

W

BR

RB

Antigua, Guatemala

20 Diciembre 1968. Floresta @.

Near finca of Francisco Ayrid.  
growth forest. Alt. c. 300 m.

2176. Juzenullosa ochracea Cuatr. Solanaceae  
var. "zyahuesca" S, Ecol, GH, LE, UC, US

Arbo. Bejuco 3 m tall epiphytic on  
fallen tree. Calyx red, to 5 parted.  
Corolla tube yellow. Stamens 5  
pressed against style. Stigmas  
greenish. Corolla 5-lobed, very  
slightly zygomorphic, lobes recurved.

USO: trunk and leaves serve  
for wounds.  
Leaves thick, leathery.  
INPA

→ Diplopterys cabrerana (Cuatr.) Gates  
2177. Banisteriopsis rostrata (Nelson) Morton  
var. "Chagropanga" A. Fulpiaco

Bejuco 10 m tall, trunk to  
15 cm in diameter. det. B. Gates 1982.  
ECOL

USO: the leaves are mixed with  
yage for seeing things, colors,  
etc.

det. J. Cuatrecasas  
2-I-1969

R, US, S, GH.

# Rio Coqueta

2170 - Solanum, K, U.S., S. or Cyphomandra?

GH vn. "chupumuyu"

Vine-herbaceous growing in 2°  
growth along trail. Flowers yellowish  
green, rather yellow, acuminate.  
Fruit a large green berry, pen-  
dulous, 4.5 cm in diameter, round,  
light green. Spiny.

uso: la pepa se usa contra la garna.

2179. Solanum leptopodium Van Heurck + Muell. Arg.  
U.S., K. det. S. Knapp 1986.

GH vn. "Salado Socho"

large herb (shrub) to 2 m tall  
along trail. Flowers with white  
petals, reflexed. Anthers yellow,  
truncate apex.

uso: the leaf is cooked in water and the  
water used to bathe skin irritations.

2180 ~~Solanum~~ Cyphomandra, K, U.S., S, P

HARTWEGII (Miers) Walp. subsp. HARTWEGII

Shrub or large herb, 2 m tall along  
trail. Petals greenish fleshy somewhat.  
Anthers acuminate, fleshy  
closed. Fruit elliptical berry  
8 mm long, green.

DET. L. BOHS 1986



Tetrathylacium macrophyllum Poeppig

2181. K, U.S. det. Steamer 1980. ~~Euphorbia~~

vn. "Chequira Sacha" GH

Small tree 4 m tall in 2<sup>o</sup> growth. Ovary with 4 "bulbs" at base, red. 4 stamens white, stigma green. Inflorescences pendent.

2182 Martinella obovata (HBK.) Bur. + Schum.

MO vn. "Yuguilla" det. A. Gentry 1972

ECON. K. Vine growing in 2<sup>o</sup> growth, 2 m long. Herbaceous.

Uso: the roots are boiled and the juice is used for disease of the eyes - *Ceguera*. *Contra la Chata*.

2183 Broussaisia

P, MO, RB, BR.

ECON A vn. Chiricaspicundo

U.S. Shrub in forest 1.5 m tall near small stream. Area coming back after destroyed by hurricane. Three small shrubs in group, but nowhere else nearby in forest.

# Rio Cerezo

leaves large, <sup>sub</sup>coriaceous, smooth.

## 2184. Brunfelsia

BIRM. "piedra Chiri Czepe"

Mo Shrub in forest 2' growth  
thicket. Same as #2183, dif-  
ferent plant.

ECOW

## 2185. Solanum <sup>f</sup>ulearum Bitter

GH

Herb 1 m tall along path in  
forest. Flowers small. Petals green  
reflexed. Anthers yellow, fruit -  
cete.

## 2186. Ischnosiphon

Murantaceae

Herb 3 m tall along trail.  
Flowers lemon yellow.

Clavigerum Poepp. det. Madison 1979.

2187. Anthurium? panduratum Mart. ex Schott.

GH? vn. "Conejachupo"

K Herb Climbing on tree. Leaves  
F large palmate, the leaflets ~~deeply~~  
pinnately lobate. Spathe pendu-  
lous reddish purple. Spadix  
brown.

2188. Sporanthelium

Hernandiac.

GH? vn. "Chunduhuzca"

ECON! Bejuco en bosque. Corteza es  
amarilla, 2 m tall.

Uso: para distruir, la toz, dolor de  
la cabeza y de estomago.

El bejuco se cocina en agua.  
una copa se toma.

Wood Lab.

2189.

vn "hinahuesca" (Inga) "ambar" (Cast).

Bejuco in forest.

HUH Wood LAB

Uso: Para agua fresca para

# Rio Cigueta

fríjoles, pulmones, y para  
fiebre.

2190. Cyperus Cyperaceae  
m. "Centura Chondur"  
FH Herb 1m tall Cultivated  
K in front yard.  
vs: the tuber is <sup>crushed</sup> used for  
vomito, Enzamor, mishi chun-  
ga, fiebre, etc.

22 Diciembre. Puerto Limon, C.R.  
2191. 370m.  
m. "mani brasileiro" "inchi brasileiro"  
Vine cultivated in garden  
of Don Ismael Lopez. Petals (Sepals)  
creamy white. Fruit 5 lobed  
to 5.8 cm across, 2.5 cm long.  
vs: the seeds are roasted and  
eaten like peanuts.  
ECON  
K

2192. *Erythroxylum novogranatense* (Morris) Hieron. aceae  
vn. "Coca" Det. T. Plowman  
Shrub 2 m tall cultivated in  
garden of Don Ismael. Flowers white,  
fruits red.  
ECOW, K, COL

2193. *Manihot esculenta*, Euphorbiaceae  
vn. "yuca" *brasileira*  
Shrub 2 m tall cultivated in  
garden of Don Ismael. Corolla  
green, the lobes pink. Fruit  
green with red coloration.  
ECOW, K

24 Diciembre

2194. K, US, S, F Papilionaceae  
*Erythrina poeppigiana* (Walpers) O.F. Cook  
Tree in 2<sup>nd</sup> growth in Puerto Limon.  
about 10 m tall. Corolla bright  
red-orange  
det. Krukoff 1976.

# P. Limón

26 Diciembre Puerto Limón.

2195. Hydrodis nymphoides (Willd.) Buch.  
GH, K, US

Floating aquatic herbs in pool  
along Rio Churuyacu. Petioles and  
leaves succulent. Petals  
pale yellow, deeper toward the  
center.

2196. Cardiospermum  
GH, K, US, S

Sepintaceae

Herbaceous herb climbing on  
fence near Rio Churuyacu.  
Petals white, anthers yellow.  
Capsule 3 lobed green. Seeds  
blue.

2197. Bunchosia armeniaca  
ru. Ciruela ECD K US

Malpighiaceae

Small tree 4 m tall in garden  
of Carmelo Muñoz, Puerto Limón. Petals  
pale yellow, glands yellow. Fruit  
bright red, edible.

2198. Melia Azedarach L.

rn. "jámin de luto" ECON K US

Shrub to tree 6 m. tall, cultivated in garden on hill overlooking Puerto Lirio. Petals pink (pale), stamen column? deep lavender. Fruit a capsule.

uso: planta ornamental.

2199 ~~Centropogon~~ Eryngium foetidum L.

rn. "celantro" "Celantro cimarrón"

Medicinal herb cultivated in houseyard. Strong odor of celantro.

uso: para varias enfermedades: dolor del estómago, reumatismo, inflamación de hígado. La hoja o flor raíz se cocina en agua.  
ECON

2200. Chenopodium ambrosioides L.

rn. "paico" ECON K

Straggly herb cultivated in houseyard. <sup>green parts</sup>

uso: the (seeds) or the roots are used as an effective purgative. The


# Fusagasuga:

plant is cooked in water, the remaining liquid is drunk when cool.

31 Diciembre 1968.

Fusagasuga: Finca La Negrita  
E.Cu. 1746 m.

2201. Brumelia uniflora (Poe.) Don.  
ECON australis Benth. det TP 1980.

Cultivated shrub 2 m tall in formal garden near house. Corolla deep violet to white, when fading showing violet veins, lobes somewhat recurved, irregularly shaped (mutant), limbs ample, mouth of tube resembling infert. face, no white ring. Calyx inflated. Flowers smelling strongly of lilacs.   
Leaves small

corolla		calyx
limb	5.4 cm across	tube 1.4 cm
tube	3.0 cm long	teeth 0.4 cm.



2202. Browallia americana L.

Solanaceae

GH

Herb 30 cm tall growing as  
a weed in waste places around  
garden - in sun and in shade.  
Corolla deep violet.

12 JANUARY 1969. c. 11000 ft.

~~WATKINS~~ BOGOTA

Cerro Monserrate

2203. Solanum marginatum L. Solanaceae

GH: orange ECON

KUS Shrub 1.5 m tall growing near  
base of tree in field. Very common  
weed. Calyx white, corolla lobes  
with violet-veined guides.  
Leaves dark bluish-green above  
white beneath.

2204. Solanum callianthum Morton Solanaceae

Shrub 3 m tall growing on top  
of Montserrat in park. Petals white  
fleshy. Fruit green det S. Knapp 1985.

GH, K, US, S, F, COL

# Bogota

2200 Solanum  
GH, K, US

Solanaceae

Shrub 2 m tall growing on  
sandy soil of mountain along public  
highway. Petals white somewhat  
bluish. Stamens bright yellow.  
Fruit green, smooth, about 2  
cm in diameter.

✓  
2201 Solanum  
GH, K, US, S, F

Solanaceae

Shrub 1.5 m tall along trail to  
church. Petals pale violet, somewhat  
reflexed. Stamens cylindrical  
yellow.

2202 Epidendrum Chioneum  
~~any~~ Lindl. Orchidaceae  
OA

Shrub 1.5 m tall in bush  
along Montserrat in Canaima.  
Leaves coriaceous. Flowers  
pale yellow, somewhat waxy.

2208.

Orchid.

Herb 2 m tall growing behind  
church on slopes. Flowers bright  
yellow, showy.

2209

Compositae

GH, K

Herb 1 m tall on slopes  
behind park. Involucre reddish  
purple. Corolla lobes + stigma  
white. Leaves coriaceous  
resinous.

2210.

Compositae

GH, K

Herb 1.5 m tall on slopes  
behind park. Flowers bright  
yellow. Leaves coriaceous.

# Boysia

2211. Senecio

GH, K, US

Compositae

Shrub 1.5 m tall on slopes  
behind park. Flowers yellow.  
Leaves linear.

2212

GH

Compositae

Shrub 1.5 m tall on slopes  
behind park. Involucres  
green with red corolla  
white, style white. Inflores-  
cences pinkish.

2213 Aragoa

GH

Scroph.

Shrub 1.5 m tall on slopes  
behind park. Corolla white.

2217.

Liana growing along trail  
to Pandanus from Church.

✓  
2218 Tibouchina grossa (L.f.) Xagn. Melastomaceae  
US, K, S, F det. J. H. Wurdack 1973.  
Shrub 2 m tall along trail  
to Jimeno. Petals deep rose  
colored (red).

✓  
2219 Compositae  
GH, K, US  
herb to 0.3 m tall  
growing on path. flowers  
pale to venter blue.

2220 Lichens.  
Lichens growing on old tree  
trunk (at base).

Bog. la'

2218. Paepilanthus

Eriocaulaceae

GH, K

Herb. Heads white.

2219. Excremis coarctata Bala. Liliaceae

GH, K

Herb. growing on Páramo  
de Montgarate. Sepals  
purple outside, blue inside.  
Petals blue. Sepals

2220.

Cypripediaceae

K, US, S

Tree 10 m tall cultivated  
on Montgarate 4- Park.

2220A. Amanita  
Varbato

Agaricaceae

Found in Pine Grove on  
higher behind Montgarate.

18. Enero 1969. Bogotá

2221. Cobaea scandens

Polemoniaceae

GH, K, US, S, F, L, NY, M, LE, MO

Vine in Instituto De Ciencias Naturales  
growing along fence. Calyx green.  
Corolla violet.

ECON

2222. Yucca

Agavaceae

ECON GH, K, US, S, F

Herb growing near base of  
Montgerate near finca called  
Nirvana. Corolla light blue.  
Growing in pasture near  
shrubs.

parviflora R. & P.

2223. Abatia verbascifolia HBK. Flacourtiaceae

GH

Rio San Francisco

Small tree along Quebrada  
running past Montgerate station.  
Flowers yellow.

det. Steumer 1986.

2224. Solanum  
GH, K

Shrub to tree growing on hillside  
near Nirvana. Corolla white.  
Hair yellow brown.

19 Enero 1969.

2225 Guzmania tomentosa H.B.K.

GH, K, US, S, F, P, L, NY

det. P. Matekatis 1982.

Tree 7.0 m tall along highway  
10 km south of Espinal.

Young fruits green, turn-  
ing black at maturity. per-  
sistent.

2226. Ficus. K, US

Much branched tree about 10  
m tall along highway near  
stream 10 km S. of Espinal.  
Abundant milky latex.



Neiva. Elev. 431 m.

2227. Cucumis dipsaceus Spach Cucurbit

ECON GH, K, US, S, F det. C. Jeffrey 1979.

Herb. Vine growing on ground in vacant lot near Center of Neiva. Corolla yellow. Fruit 5 berry, covered with soft spines, turning yellow at maturity. Very bitter.

20 Enero 1969. Rio Neiva - Altamira

2228. Epidendrum ~~exaltatum~~ ibaguense HBK. Orchidaceae

Ames Orch, Bog, INPA, K

Herb to 1 m. tall growing on dry bank along road.  
near Altamira Elev. 1079 m.

2229. Nyctaginia Labiatae  
GH, K, US

Herb, growing in waste places along street in Altamira.  
Corolla reddish orange.  
ECON

2230. ~~Buchnera~~ Buchnera  
GH

Herb growing along road in  
Altamira.

Resinas. 4 km. toward Florencia.

2231. Blechnum arborescens (Kl. + Karst.) Hieron.  
fern growing in Potrero or  
hillsides. det. DSB.  
GH

2232. Euphorbiaeae  
GH, K, US  
Shrubs 1.5 m tall on hillside  
near road. Heads white.

Solanum dolichosepalum Bitter det. M. D.  
Whalen 1987.  
2233. Solanum auctosepalum Rusby  
GH, K, US, S, F det. M. Nee 1982.

Shrubs 3 m tall along roadside  
near dwelling. Corolla pale  
violet. Young shoots growing in  
curious crozier (semi) manner.

# Florencia

2234. Setonium quitoense Lam.

GH, K, US, S det. M. Nees 1982.

Shrub 1.5 m tall along roadside.

Calyx purple ~~fls~~ hairy. Corolla white.

Young leaves + twigs also purple. Fruits covered with disarticulating hairs.

21 Enero 1969. Florencia C. 300 m.  
Elev.

2235. Cinanga odorata Hook f. et Thoms

ECO A-JP, K, US, S, F, P, L

Tree growing in Plaza and along streets of Florencia. Very fragrant odor especially at night. Calyx green. Petals light green to yellowish. to 10 m tall.

22 ENER 1969.

# Florencia

2236. Borreria? speciosa Hook.

ECON A-JP, US, K, S, F, P, L

Herb growing as ornamental  
in garden of Escuela Normal  
in florencia. Corolla blue.

22 Enero 1969. El Recluta 10 km N.  
of florencia along Road to  
Neuquen. 300-500 m Elev.

2237. Adiantum tomentosum Kl.

Fern in cut over 2° forest,  
to 1.5 m tall. Dry. Very common!  
Grit

2238. Trichomanes pinnatum Hedw.

Grit Det DSB

Fern growing on forest floor,  
2° forest. Dry. Occasional.

2240.

~~Calathea~~ Calathea sp. nov.

Marantaceae

det. HK K, US

Herb 1.5 m tall growing on forest floor. Flowers: <sup>petals</sup> pale yellow. Occasional. Outer stamens deep yellow.

2239. Pleurostachys

Cyperaceae

Herb growing in <sup>2</sup> forest in large clump.

K, US, S, F, P, L, NY

2241. Solanum jamaicense Mill.

GH, K, US, S, F, P, L det. M. Nee 1979.

Shrub in waste places along road on grassy hillside - 1.5 m. tall. Corolla white.

2242. Scleria

Cyperaceae

var. "Cortadara"

GH Herbs to 3 m. in dry 2° woods.

# Florencia

2243. Juzuelloa ochracea Cuatr.  
 CTH, ECA, INPA

Epiphytic shrub - scandent -  
 2 m. across. Growing in crotch  
 of tree on edge of clearing.  
 Calyx dark red, corolla yellow  
 to orange, fleshy. Leaves  
 rubbery, membranaceous. Petioles  
 bright orange. Roots forming  
 soft tubers housing ants.

2244. Panicum pilosum Sw. Gramineae  
 INPA, US, GH det. T. Soderstrom  
 LE, K, S Herb about 1 m tall in burned  
 over clearing near road. In rosette  
 like clumps.

2245. Ichneanthus sb. Gramineae  
 GH, US I. pallens (Swartz) Munro  
 K 5 Herbs creeping along ground  
 in burned over clearing.  
 det. M.T. Sieber

INPA,

(Hack.) Hitchc.

2246. Lasiacis procerrima Griseb.  
US, GH det T. Soderstrom  
F, K, S, Herbs 3 m tall growing in open  
burned over clearing near road.  
In flower, spreading  
at maturity.  
INPA

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2247. Solzneria  
GH, K

Herb to shrub 1 m tall growing  
in backyard of Escuela Normal  
just S. of Florencia. Corolla  
pale green.

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23 Enero 1969. 5 km south of  
Florencia - hills behind  
Escuela Normal. Collectors:  
Pedro Lasso y Helen Kennedy.  
c. 1300 m. Elev.

2248. Etavija Potalia amara Aubl.  
GH

Shrub 2 m tall in 2° forest.  
Receptacle yellow, (sepals) - fruit  
green.

# Florencia

2249 Heliconia velutina Andersson

Gr H, K, US, S det. L. Anderson VII-1982.

Herb 2 m tall in 2' forest.

Bracts red, axis yellow. Petals green, fruit yellow.

gracile (Rudge) Lindl. det. M. Madison 1977.

2250 Anthurium scolopendrinum (Ham.) Kunth

Gr H, K, US, S F

Herb 1 m tall growing on short stump near edge of forest. Spathe red, spadix brown.

2251 Monstera adansonii Schott

Gr H, ~~US~~ F det M. Madison 1977

Herb 1 m tall epiphytic on

side of tree. Spathe white turning black with age, deciduous. Fruiting spadix creamy white.



2252. Cestrum

GH, K, US, S, F

Small shrub 1 m tall along trail on edge of field. Fruits blue black at maturity about 1 cm long.

2253. Polygala

GH, K, US, S, F

Shrub to 2 m growing in forest. Bracts white with green towards the tip.

Polygala  
~~legum~~

2254. Erythroxylon cf. gracilipes Peyritsch

GH, ~~K, US, S~~ COL, F, US.

Small tree to 5 m tall along trail at edge of woods. Branched in curious horizontal planes.

# Florencia

2255. Platelia

Annonaceae

GH, F, LE, S, K det. James Walker

Small tree 5 m tall in 2° forest. Fruits light green.

2256. Casalaria pitumba Steumer

GA, ~~GH~~ K det. Steumer 1980.

Small tree 7 m tall in 2° forest. Fruits green, 3 lobed about 2 cm in diameter.

2257. Tococa filiformis (Gleason) Wurdack Malvaceae

US, K, S, F GH

Herbs to 2 m tall. Calyx red. Petals pink. Awt plant with specialized protrusions on the petioles.

det. J.J. Wurdack 1972.

2258. Ryania speciosa Vahl  
GH, K, US det Steumer 1976.

~~Ammonacea~~

Shrub 1.5 m tall in 2° forest.  
Sepals light green beneath  
pink above. Filaments and  
style pink.

1

2259. Ischnosiphon puberulus Marantaceae  
GH, K, US, S, F var. scaber (Peters.) Andersson.

~~1~~ Elongate scandent herb about  
6 m long. Leaves above green and  
somewhat shiny, pale beneath  
the veins prominent as fine  
dark lines.

det. L. Andersson 1978.

2260. Ischnosiphon leucophaeus (P. & E.) Koern. Marantaceae  
GH, K, F ~~det~~ ssp. leucophaeus

Herb 0.5 m tall on forest floor.  
Leaves dull green above, very  
pale beneath

det. L. Andersson  
1978.

# Florencia

2261. Monotagma sp. nov. Marantaceae  
GH, K aff. doliosum det HK.  
Herb to 1 m tall in forest.  
Flowers red orange (bud).

2262. Miconia laurteigiana Wurdack ~~Relbunifera~~  
US, K, S, F det. J. Wurdack 1972  
GH Shrub 1.5 m.

2263. Cordia nodosa Lam.  
GH S, K, F  
Shrub 1 m tall. But plant.  
in swollen portions of stem.

2264. Psychotria santaremia Rubiaceae  
GH, K M. Arg. det. D. Simpson  
Shrub 2 m tall in small  
clearing in forest. Axis of infl.  
purple. Fruits green.

Lara

2265. Peperomia

GH, K, US, S, F

Piperaceae

2266.

Succulent herb growing on  
old stump at edge of forest.  
Leaves fleshy, succulent.  
Spike yellow.

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24 Enero Puerto Lara, Coqueá.

300-400 m.

2267. Ficus?

K, US

Tree - large - about 25 m tall,  
trunk about 1 m. along Rio  
Orteguaza, at Puerto Lara. Milky  
juice.

2268. Ficus

K, US, S, F

Large tree 20 m tall along  
Rio Orteguaza, at Puerto Lara. Leaves  
somewhat coriaceous. Abundant  
milky latex.

2269. Solanum

var. "lulo" GTT, K, US, S

Spriny shrub along Rio Ortega-  
za et Puente Lara. Calyx purple  
Corolla white. Fruit orange  
5 cm in diameter.

2270. Solanum sessile Ruiz + Pavon Solanace.

GTT, K, US, S, F, P, L, NY, M

Shrub 3 m tall in field behind  
Mansion et Lavalandia. Corolla  
white. det. S. Knapp 1986.

Clusiace.

2271. Clusia: Decaphalangium peruvianum

GTT, K, US, S, F, P

Melch.

Tree 10 m tall along Rio  
Ortega-za et Puente Lara.  
Petals fleshy orange. Stigma  
bright yellow. Leaves fleshy  
succulent.

det. P. F. Stevens 1987.

25 Enero, 1969, 9 km South of Florencia  
near Rio Ortega Lq.

Coll. Rouman, Klunz, I. Orobo.

2272 Cecropia ~~magnifolia~~ Cuatrecasas  
GH, US, K, S det. J. Cuatrecasas 1978

Small tree to 5-6 m.

along river bank, 2° growth  
(thicket). ♀ infl. green  
underside of lv. white.

CECROPIA FICIFOLIA SNETHLAGE DET. C.C. BERG 1992

Dimierocostus strobilaceus O. Kuntze. det. P.M. Maas  
1972.

2273 [Dimierocostus uniflorus]  
ECW, K, US (Poepp.) K. Schum

4 m. high. On steep slope  
of river bank. 2° growth situation  
flowers white. fr green


Det. H. K.

2274 Costus guanaiensis Rusby Zingiberaceae  
# GH, K var. macrostrobilus (K. Schum) Maas. det. Maas  
1972

3.5 m. high. Steep slope of  
river bank. 2° growth situation (thicket)  
flowers pink. bracts green  
w/ appendage. Petals white (stamens  
pink → red)

# Rio Orinoco

- 2275 Heliconia hirsuta L.f. Musara  
Utrecht GH, K det. L. Andersson 1985.  
Along <sup>steep</sup> river bank 2° growth thicket  
plant 2.5 m Bracts orange.

- 2276 Heliconia ortotricha Anders s.  
Utrecht GH, K det. L. Andersson 1982.  
Bracts dark red Plant 2-2.5  
m. flowers green. Along  
steep river bank 2° growth  
thicket. Fruit - red-orange  
 Older specimen  
usu. just dark red.

- 2277 Miconia tomentosa (Rich.) Don Meletom  
US, K, S det. J. J. Wurdack 1972  
~~Large~~ Large shrub 3 m. high petals  
Along quebrada. Ovary pink ~~bracts~~  
cream colored, stamens purple.  
anthers & fil. purple. Pistil white  
Bark papery splitting longitudinally  
exfoliating.



- 5 -

C. VERTICILLATA (L.) NICOLSON & JARVIS  
DET. J. A. LOMBARDI XII/1993

2278. Cissus sicyoides L.

GH, US, K, S, F, P, L, NY

Vine 6 m tall growing on bamboo along River. Flowers white, fruits black 2f mat-  
urity (berry), about 1 cm in diameter.

Plant infected with ants.

(Stadelm.) Woods.

2279. Macropharynx spectabilis

Apocynaceae

GH, K, US, S, F, P, L, NY, MILE, MO.

Woody liana, growing in 2° thicket  
corolla lobes white (Petals overlap  
counterclockwise) Clear sap, bitter.

± 5 m. Long.

det. Mary Fallen 1980.

2280 Miconia titanophylla Gleason *Relatiform*  
US det. J. J. Wurdack 1972 ex char. (charly)

GH  
K, S,  
F, P

Calyx lobes pink, anthers + fil. pink  
corolla lobes white

Large shrub 3 m. Along river  
bank in 2° thicket.

- 2280-<sup>1/2</sup>A. Piper ~~puberulum~~ <sup>erbreum Aubl.</sup> puberulum US, K, S, F, P, Δ  
 GH Shrub 1.8 m tall along river in thicket.  
 det W. Burger 1978
2281. Olyra latifolia L. Gramin.  
 GH, US det. T. Soderstrom  
 Along riverbank 2° thicket  
 herb 1.5 m.
- 2282 Stigmaphyllon Malpig.  
 GH, K, US, S, F, P, L, NY, M, LE  
 tall vine, climbing on tree  
 10m. long Flower - petals bright yellow  
 samaras green turning red.
- 2283 Tabebuia Bignon.  
 GH, K, US, S  
 Tree 10m. high. Along fence  
 row (cultivated?) Flowers ~~purple~~  
 pink-lavender
- 2284 Calathea sp. Marant.  
 US sterile.  
 Along riverbank at bridge 2° growth  
 No fl. or fr. Non-branching.  
 Lvs. only.

# Florencia

26 Shero 1969. Florencia

2285. Solanum GRANDIFLORUM. R. & P.

GH, K, US, S, F, P, L, NY, M, LE DET. H. NEE 1989

Shrub to small tree 4 m tall along road to airport. Corolla violet, anthers yellow. Fruit green 3.5 cm in diameter. Fruit turns black on cutting.

2286. Mangifera indica L.

A-JP, K, US

Tree 6 m tall in house yard near airport. Peduncle reddish. Petals creamy yellow.

ECOD

sacha - árbol  
huasca - bejuco

huacamayo - pajarito colorado  
garzas - white cranes.

! mizáta canqui = que tal? como está?  
! masata síticanqui = como se llama?

Pescado

dorada - dorada

bozachico - chaluza

cucha - carahua

Chimbe

sardina - sambico

Saimo - wild pig - puerco del monte  
habillas largueta

Cerepuángui - buenos días

Chigipuángui - buenos tardes

Sopunchacama - adiós

cayacama - hasta mañana

pokuska - plátano maduro

yuyo - plátanos tiernos

tomo - yuca

yacu - río

kumi - piedra

cari - hombre viejo

huarame - mujer

muzo - joven

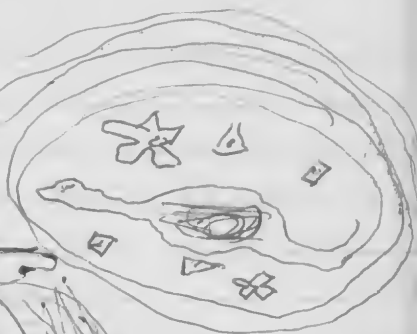
sipas - señorita

rupo - viejo

ahuita - mujer vieja

# J JUA GUATOPO

Lunion Caha  
 color - oro  
 hojas.



verde  
 madera

azul.

plata

cuamegro

amarillo



verde  
 rojo

azul

plata

no sabe

Pedro Juaiboro





